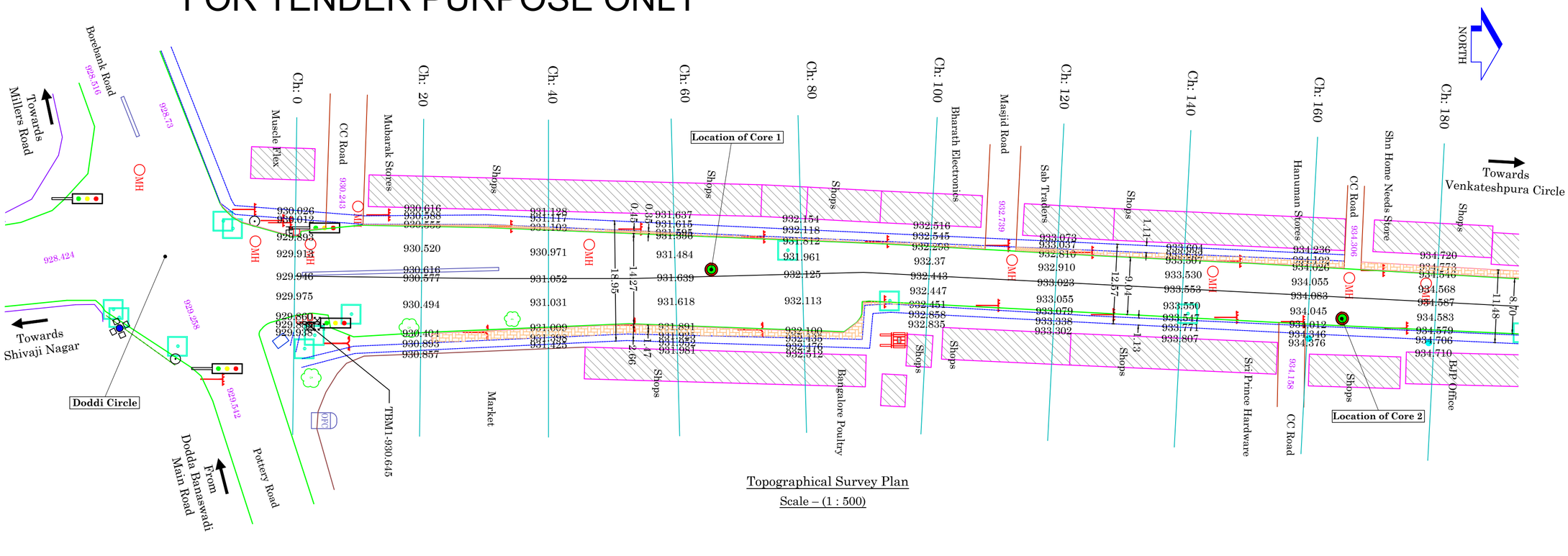
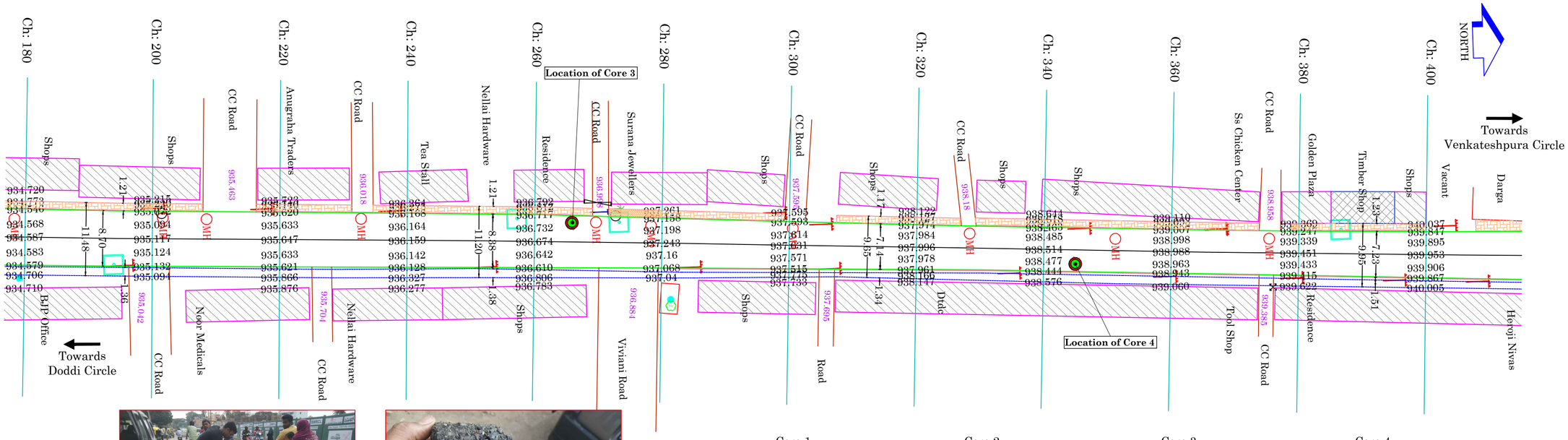
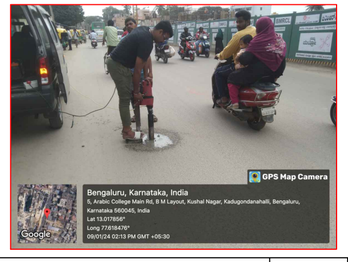
FOR TENDER PURPOSE ONLY



Topographical Survey Plan

Scale – (1 : 500)





Core 1 — RL
0mm Bituminous Layer 70mm

Core 2 — RL
0mm Bituminous Layer 80mm

Core 3 — RL
0mm Bituminous Layer 85mm

Core 4 — RL
0mm Bituminous Layer 80mm

Extracted Core Details

Scale – (1 : 100)

LEGEND:	
Description	**Symbol**
Bench Mark	
Bituminous Road	
Borewell	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
GAIL Gas Line Indicative Stone	
Gate	
High Mast	
Level	
Manhole	MH
Median	
Name Board	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	
Valve	Valve

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	1 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Tannery Road / TP & ECD / 101A

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

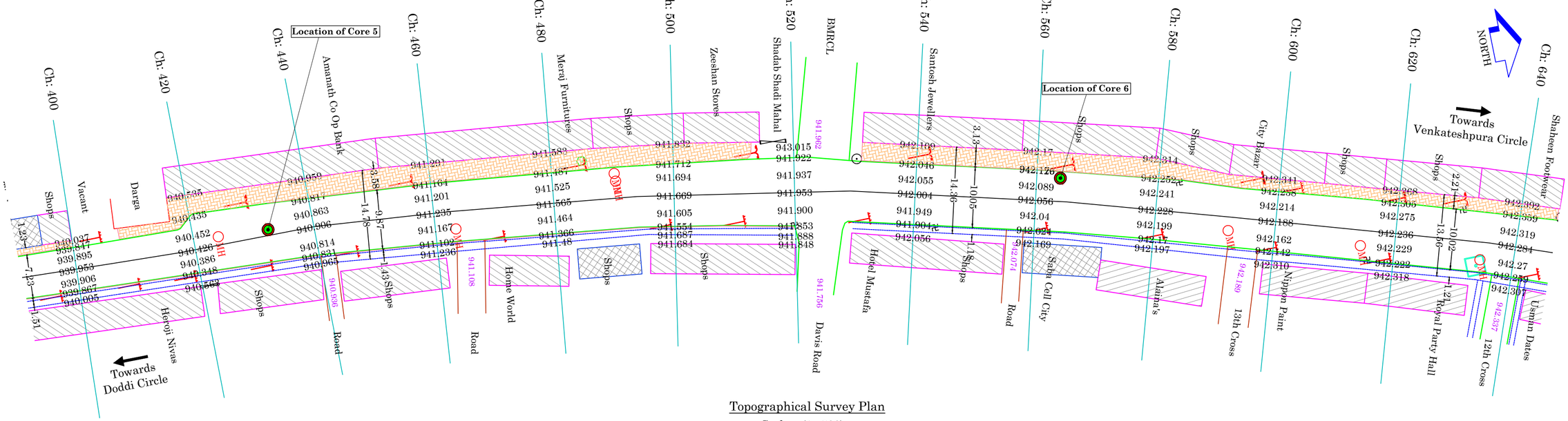
Topographical Survey Plan and Extracted Core Details

Tannery Road from Doddi Circle to Venkateshpura Circle

(From Ch: 0 to Ch: 400)

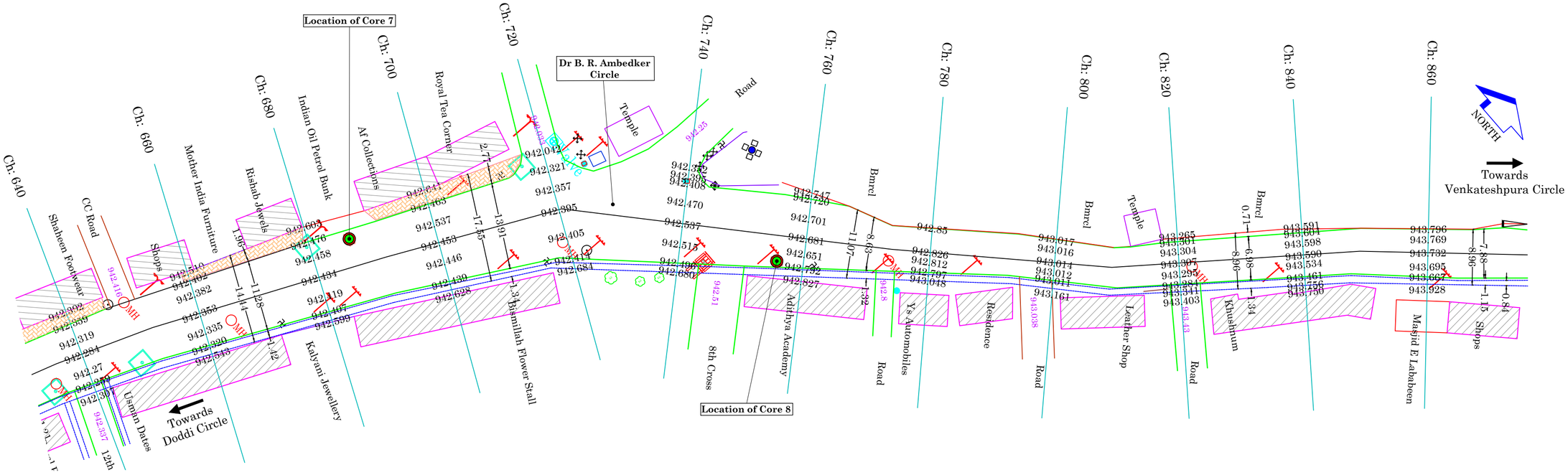
PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvanga Nagar and Pulikeshi Nagar Constituencies in Bengaluru City the Year 2023 – 24 under Package – 1



Topographical Survey Plan

Scale – (1 : 500)



Core 5

RL

0mm

Bituminous Layer

120mm

Core 6

RL

0mm

Bituminous Layer

90mm

Core 7

RL

0mm

Bituminous Layer

140mm

Core 8

RL

0mm

Bituminous Layer

110mm

Extracted Core Details

Scale – (1 : 100)

FOR TENDER PURPOSE ONLY

LEGEND:	
Description	**Symbol**
Bench Mark	
Bituminous Road	
Borewell	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
GAIL Gas Line Indicative Stone	
Gate	
High Mast	
Level	
Manhole	MH
Median	
Name Board	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	
Valve	Valve

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	2 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Tannery Road / TP & ECD / 101B

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

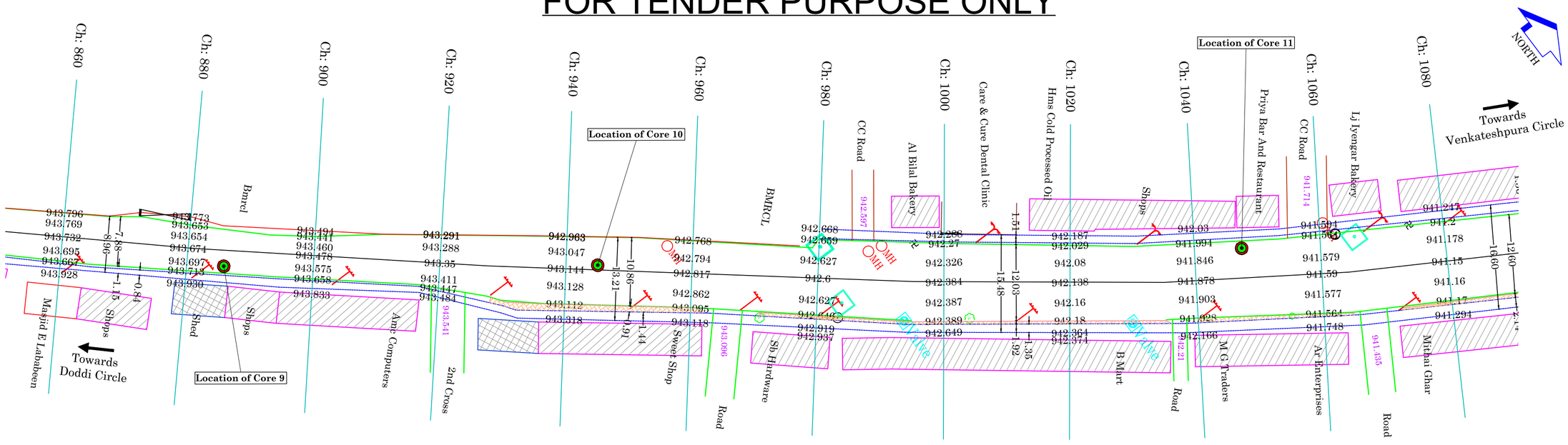
TITLE:

Topographical Survey Plan and Extracted Core Details
Tannery Road from Doddi Circle to Venkateshpura Circle
(From Ch: 400 to Ch: 860)

PROJECT:

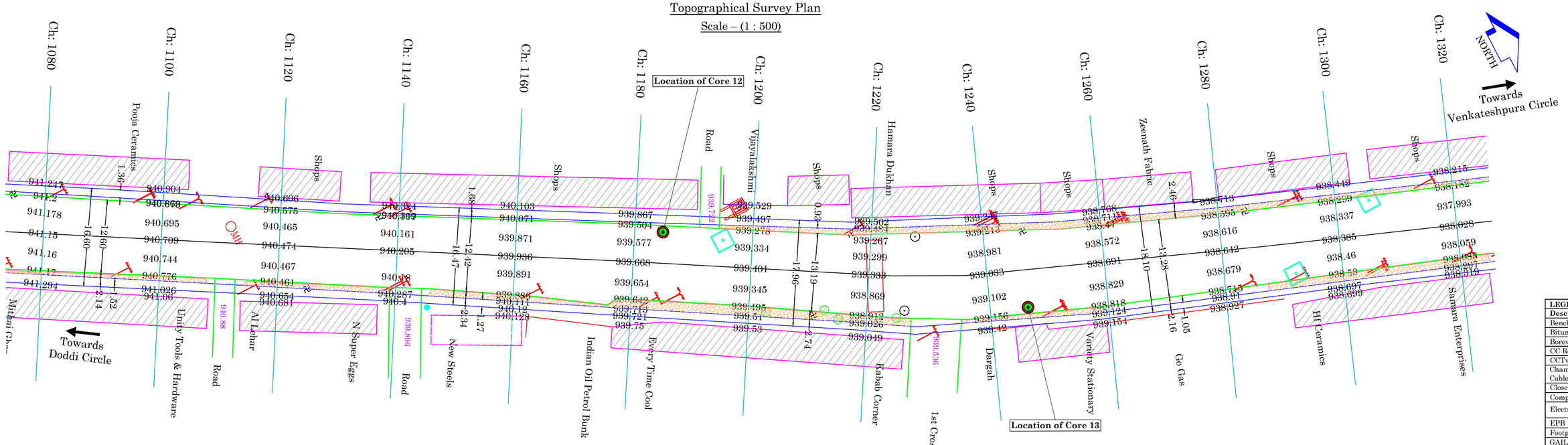
Comprehensive Development of Roads by providing White Topping in Sarvanga Nagar and Pulikeshi Nagar Constituencies in Bengaluru City the Year 2023 – 24 under Package – 1

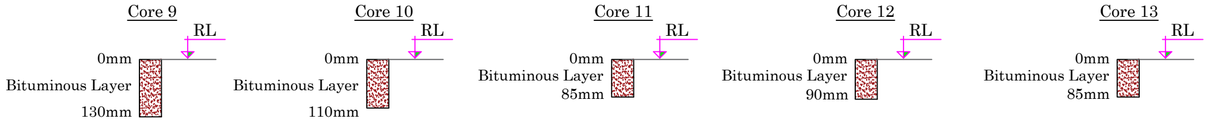
FOR TENDER PURPOSE ONLY



Topographical Survey Plan

Scale – (1 : 500)





Extracted Core Details

Scale – (1 : 100)

LEGEND:

Description	Symbol
Bench Mark	
Bituminous Road	
Borewell	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
GAIL Gas Line Indicative Stone	
Gate	
High Mast	
Level	100.791
Manhole	MH
Median	
Name Board	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	
Valve	Valve

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	3 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Tannery Road / TP & ECD / 101C

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

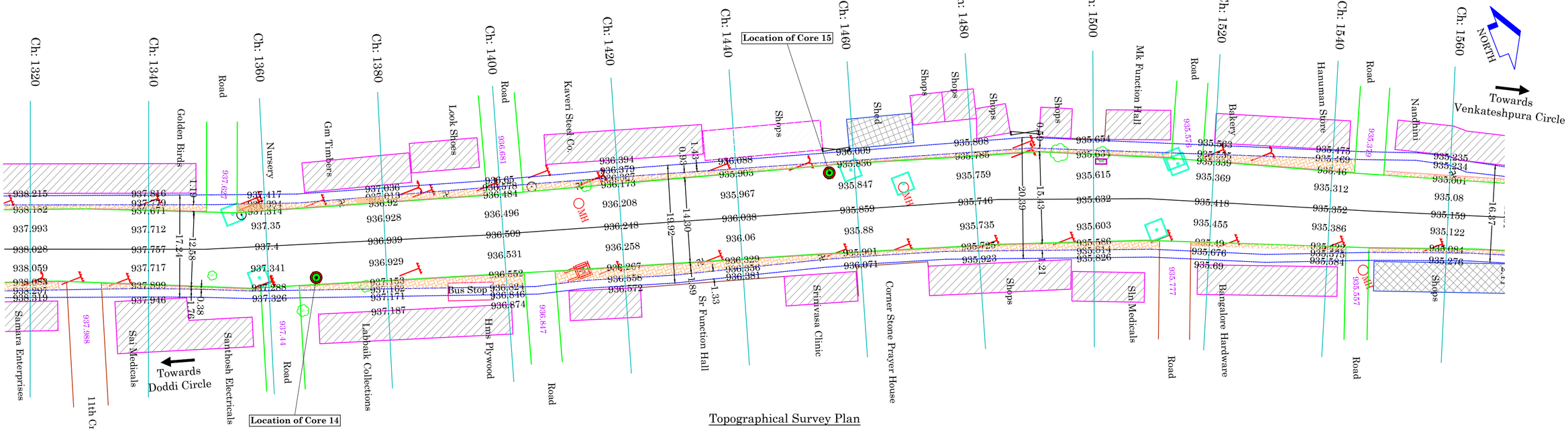
Topographical Survey Plan and Extracted Core Details

Tannery Road from Doddi Circle to Venkateshpura Circle

(From Ch: 860 to Ch: 1320)

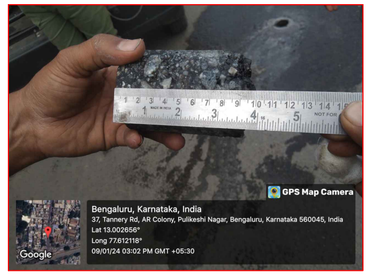
PROJECT:

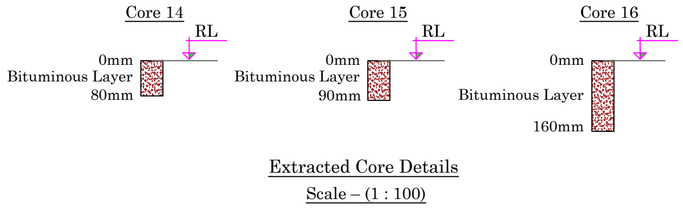
Comprehensive Development of Roads by providing White Topping in Sarvanga Nagar and Pulikeshi Nagar Constituencies in Bengaluru City the Year 2023 – 24 under Package – 1



Topographical Survey Plan

Scale – (1 : 500)





Extracted Core Details

Scale – (1 : 100)

FOR TENDER PURPOSE ONLY

LEGEND:	
Description	**Symbol**
Bench Mark	
Bituminous Road	
Borewell	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
GAIL Gas Line Indicative Stone	
Gate	
High Mast	
Level	
Manhole	
Median	
Name Board	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	
Valve	

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	4 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Tannery Road / TP & ECD / 101D

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

Topographical Survey Plan and Extracted Core Details

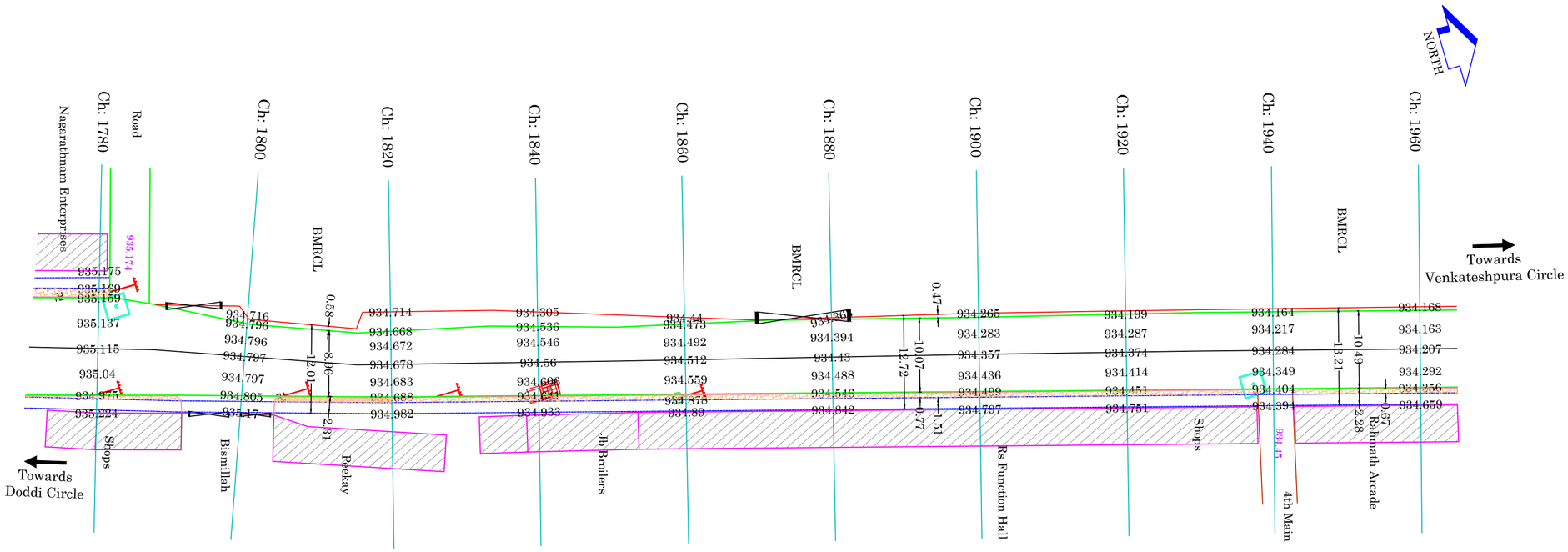
Tannery Road from Doddi Circle to Venkateshpura Circle

(From Ch: 1320 to Ch: 1780)

PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvanga Nagar and Pulikeshi Nagar Constituencies in Bengaluru City the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Topographical Survey Plan

Scale – (1 : 500)

LEGEND:	
Description	**Symbol**
Bench Mark	
Bituminous Road	
Borewell	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
GAIL Gas Line Indicative Stone	
Gate	
High Mast	
Level	
Manhole	MH
Median	
Name Board	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	
Valve	Valve

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	5 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Tannery Road / TP & ECD / 101 E

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

Topographical Survey Plan and Extracted Core Details

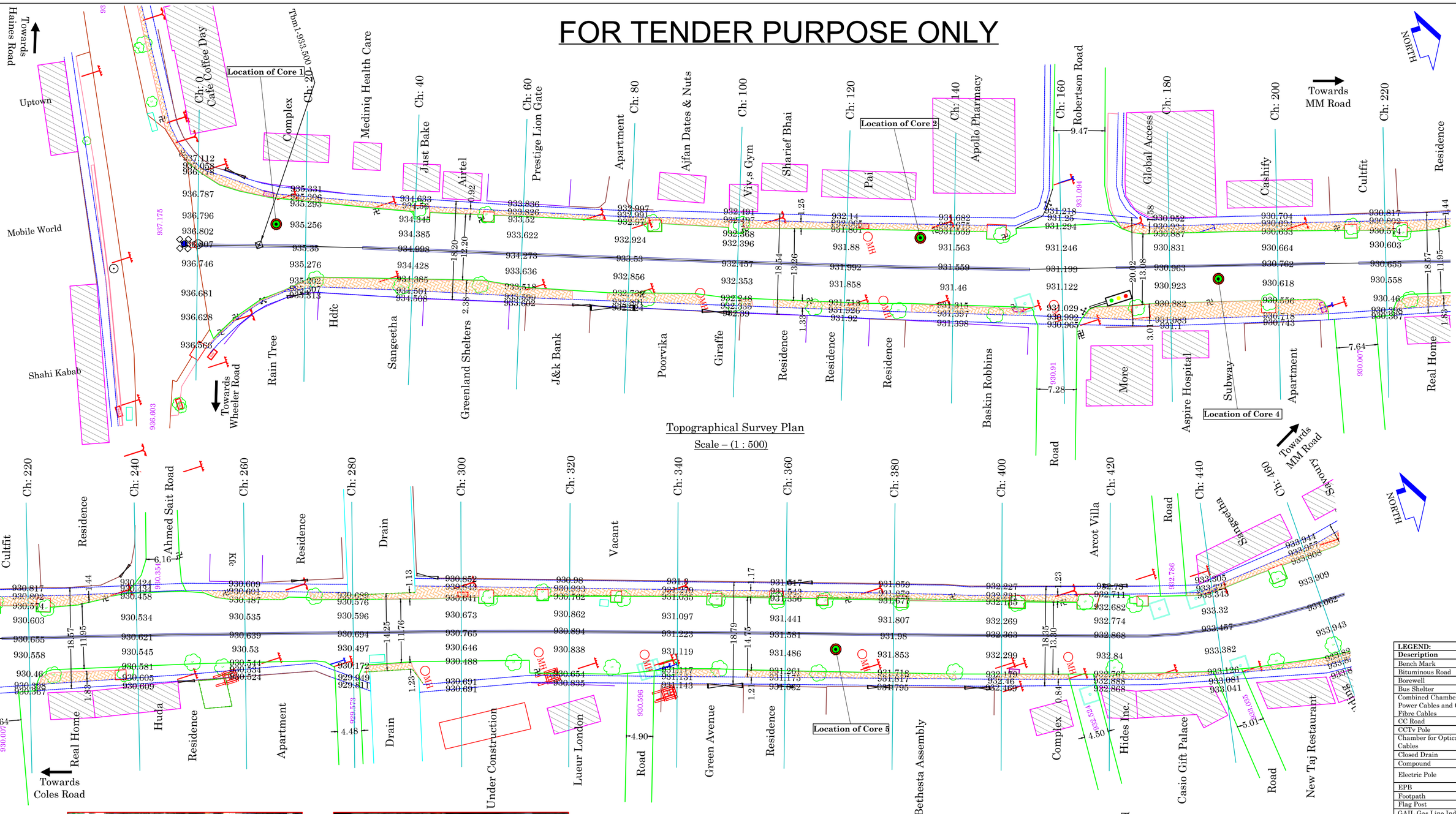
Tannery Road from Doddi Circle to Venkateshpura Circle

(From Ch: 1780 to Ch: 1960)

PROJECT:

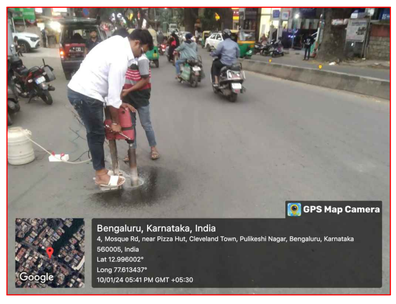
Comprehensive Development of Roads by providing White Topping in Sarvanga Nagar and Pulikeshi Nagar Constituencies in Bengaluru City the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Topographical Survey Plan

Scale – (1 : 500)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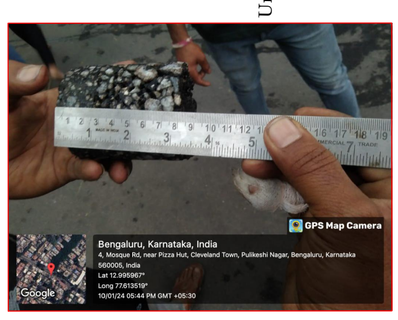
Bengaluru, Karnataka, India
4, Mosque Rd, near Pizza Hut, Cleveland Town, Pulikeshi Nagar, Bengaluru, Karnataka 560005, India
Lat 12.996602°
Long 77.613437°
10/01/24 05:41 PM GMT +05:30
Google


GPS Map Camera
Bengaluru, Karnataka, India
4, Mosque Rd, near Pizza Hut, Cleveland Town, Pulikeshi Nagar, Bengaluru, Karnataka 560005, India
Lat 12.995967°
Long 77.613519°
10/01/24 05:44 PM GMT +05:30
Google

LEGEND:	
Description	**Symbol**
Bench Mark	
Bituminous Road	
Borewell	
Bus Shelter	
Combined Chamber for Power Cables and Optical Fibre Cables	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
Flag Post	
GAIL Gas Line Indicative Stone	
Gate	
High Mast	
Interlock Paver Block	
Level	
Manhole	MH
Median	
Name Board	
Parking Bay	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	
Tree Pit	

Core 1 — RL
0mm Bituminous Layer
80mm

Core 2 — RL
0mm Bituminous Layer
75mm

Core 4 — RL
0mm Bituminous Layer
90mm

Core 5 — RL
0mm Bituminous Layer
85mm

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	1 / 2

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Mosque Road / TP & ECD / 201

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

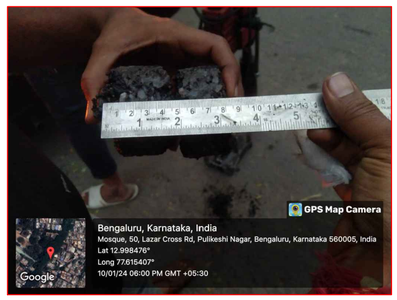
TITLE:

Topographical Survey Plan and Extracted Core Details
Mosque Road from Coles Road to MM Road
(from Ch: 0 to Ch: 460)

PROJECT:

Preparation of Detailed Project Report (DPR) for Comprehensive Development of Roads by providing White Topping in Byatarayanapura, Yelahanka and Malleshwaram Constituencies in Bengaluru City the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Core 3

RL

0mm
Bituminous Layer
100mm

Core 6

RL

0mm
Bituminous Layer
80mm

LEGEND:	
Description	**Symbol**
Bench Mark	
Bituminous Road	
Borewell	
Bus Shelter	
Combined Chamber for Power Cables and Optical Fibre Cables	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
Flag Post	
GAIL Gas Line Indicative Stone	
Gate	
High Mast	
Interlock Paver Block	
Level	
Manhole	MH
Median	
Name Board	
Parking Bay	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	
Tree Pit	

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	2 / 2

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Mosque Road / TP & ECD / 201

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

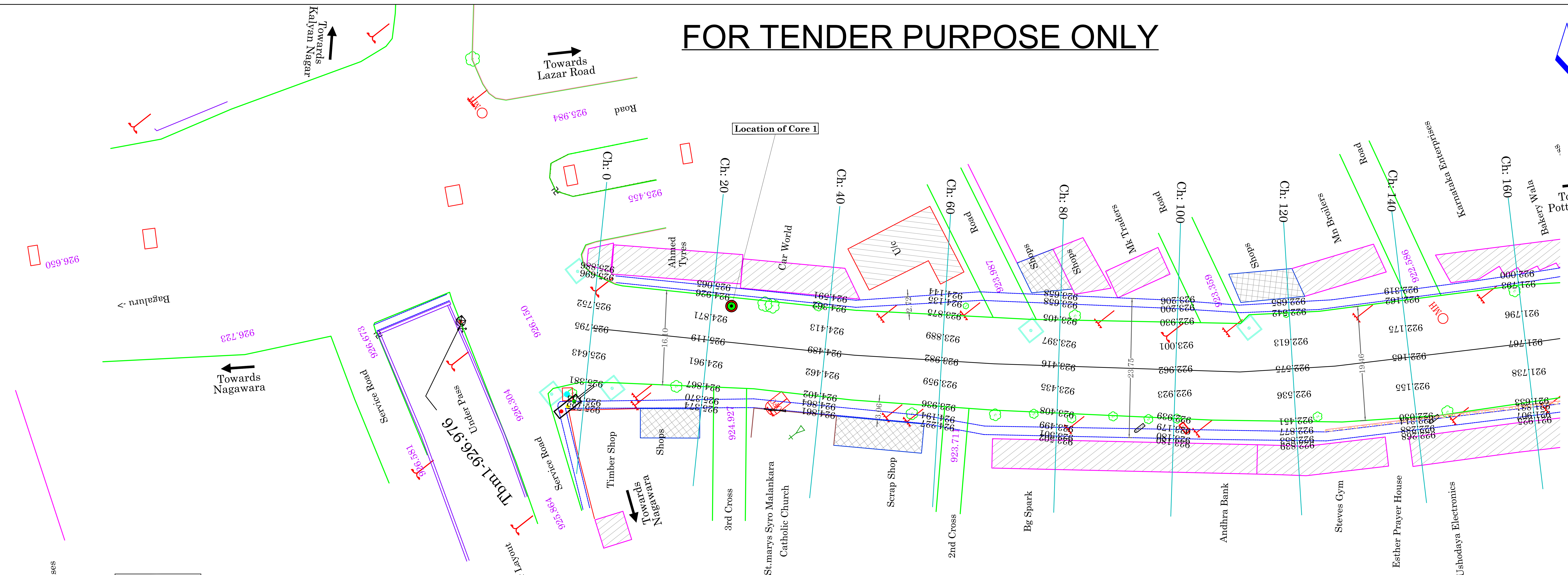
TITLE:

Topographical Survey Plan and Extracted Core Details
Mosque Road from Coles Road to MM Road
(from Ch: 460 to Ch: 560)

PROJECT:

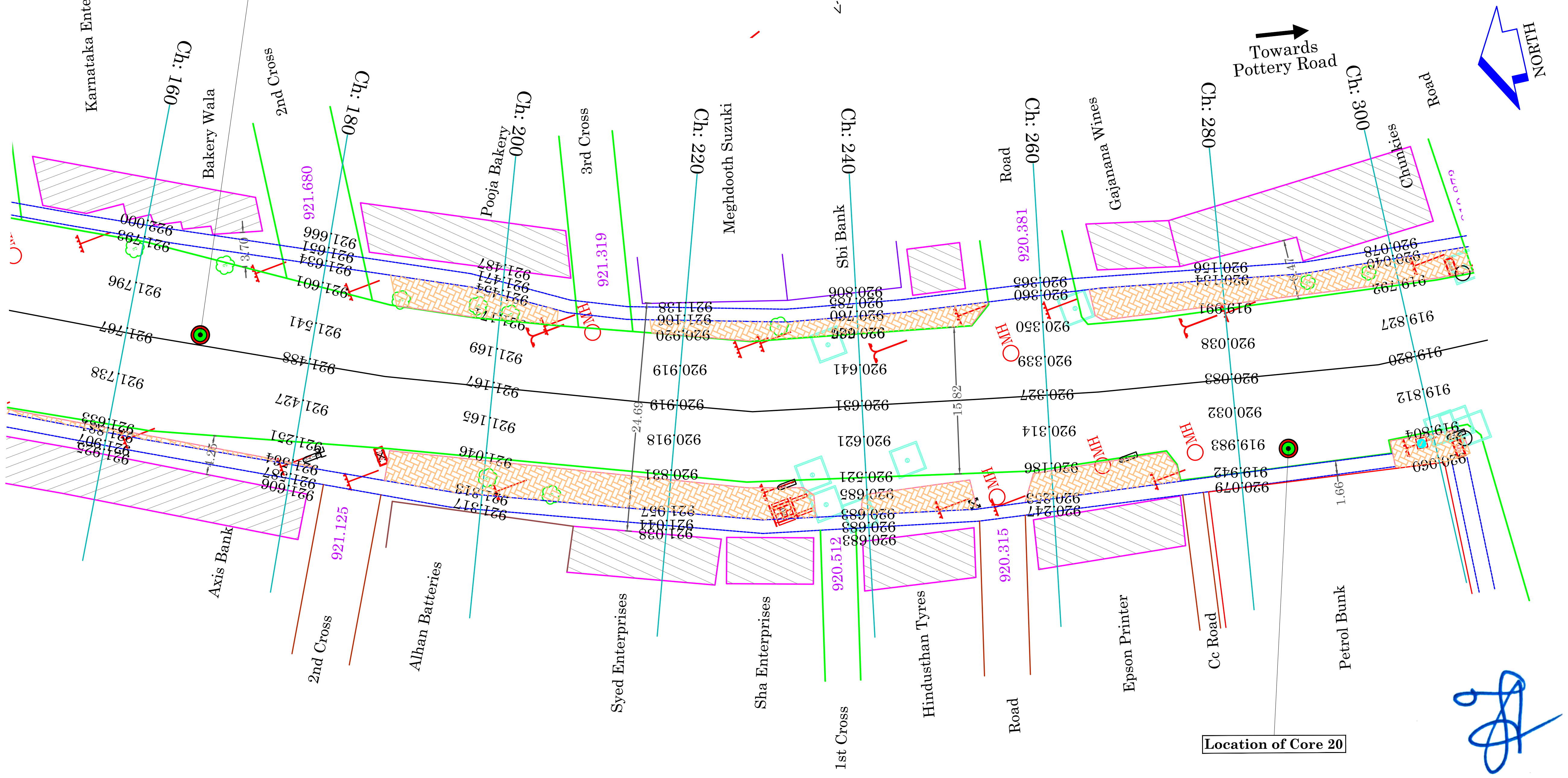
Preparation of Detailed Project Report (DPR) for Comprehensive Development of Roads by providing White Topping in Byatarayanapura, Yelahanka and Malleshwaram Constituencies in Bengaluru City the Year 2023 – 24 under Package – 1

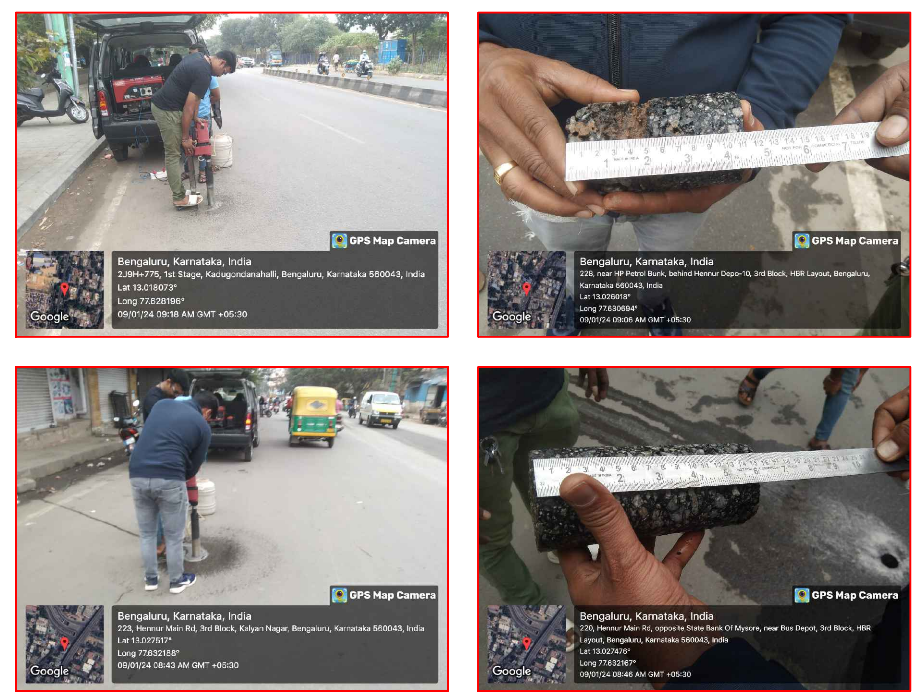
FOR TENDER PURPOSE ONLY

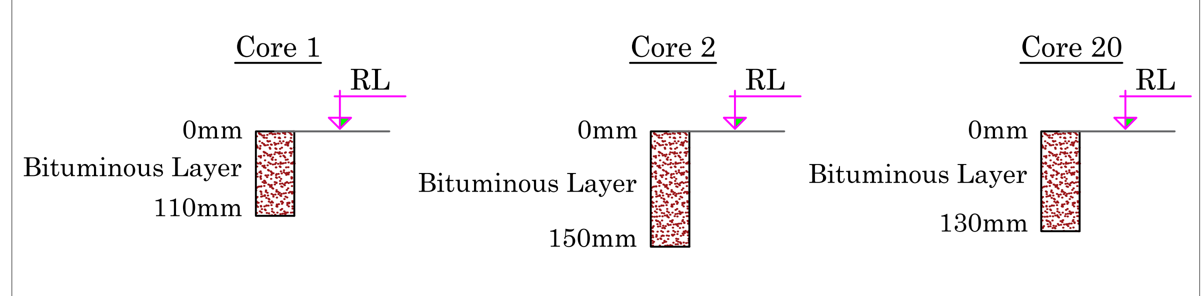


Topographical Survey Plan

Scale – (1 : 500)







Extracted Core Details

Scale – (1 : 100)

LEGEND:

Description	Symbol
Bench Mark	
Bituminous Road	
Borewell	
Bus Shelter	
Combined Chamber for Power Cables and Optical Fibre Cables	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	EPB
Footpath	
Flag Post	
GAIL Gas Line Indicative Stone	GAIL
Gate	
High Mast	
Interlock Paver Block	
Level	100.791
Manhole	MH
Median	
Name Board	
Parking Bay	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	
Tree Pit	

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	1 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Hennur 80 ft. Main Road / TP & ECD / 401A

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

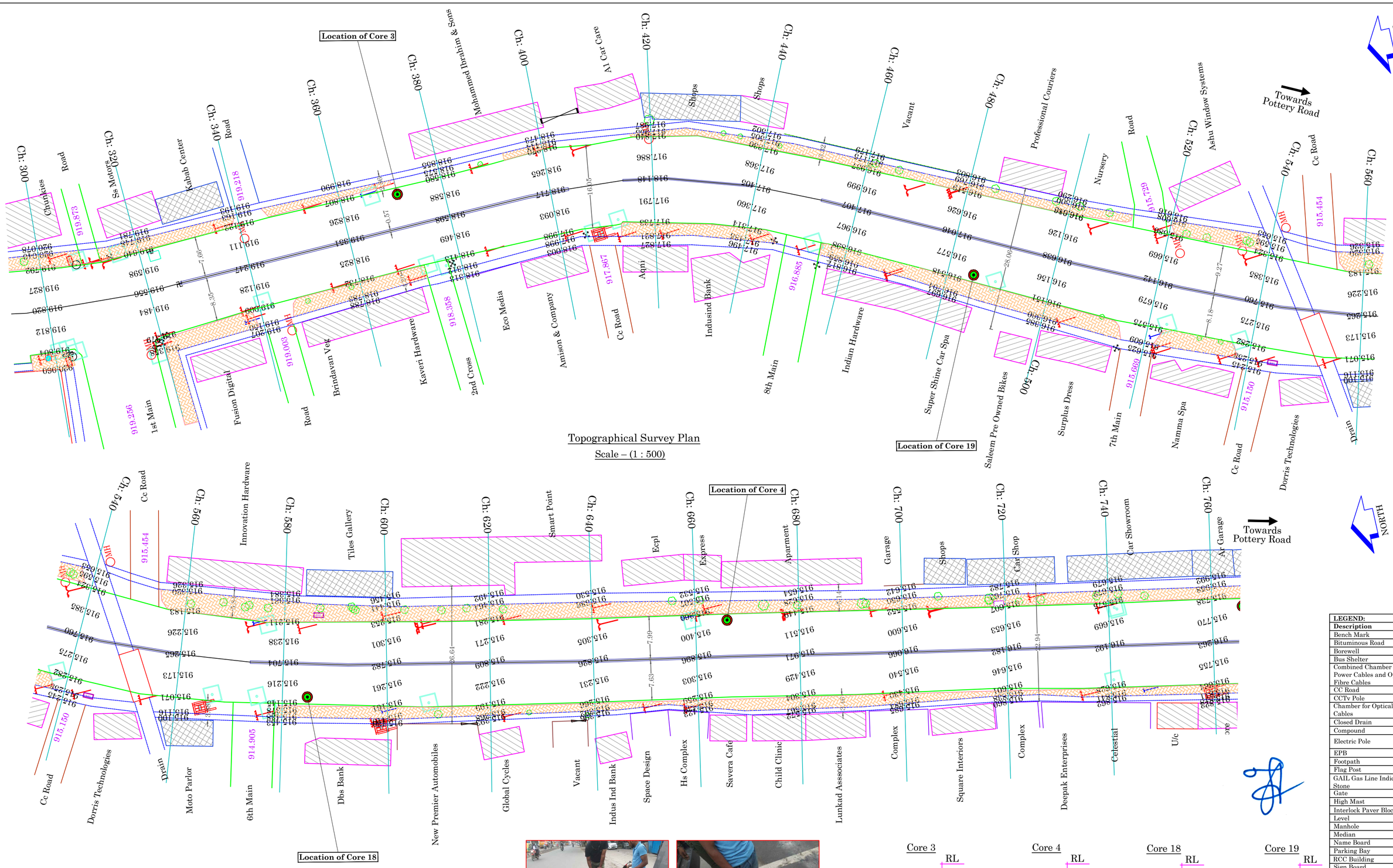
BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

Topographical Survey Plan and Extracted Core Details
Hennur 80 ft. Main Road from Hennur Junction ORR to Lingarajapura Flyover
(from Ch: 0 to Ch: 300)

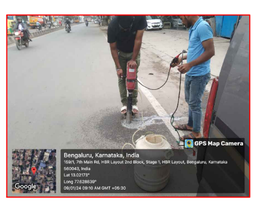
PROJECT:

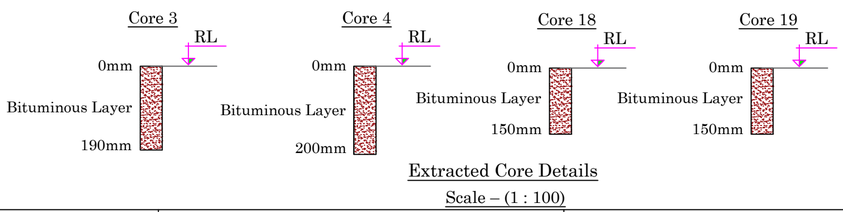
Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1



Topographical Survey Plan

Scale – (1 : 500)





Extracted Core Details

Scale – (1 : 100)

LEGEND:	
Description	**Symbol**
Bench Mark	
Bituminous Road	
Borewell	
Bus Shelter	
Combined Chamber for Power Cables and Optical Fibre Cables	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
Flag Post	
GAIL Gas Line Indicative Stone	
Gate	
High Mast	
Interlock Paver Block	
Level	
Manhole	
Median	
Name Board	
Parking Bay	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	
Tree Pit	

FOR TENDER PURPOSE ONLY

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	2 / 5

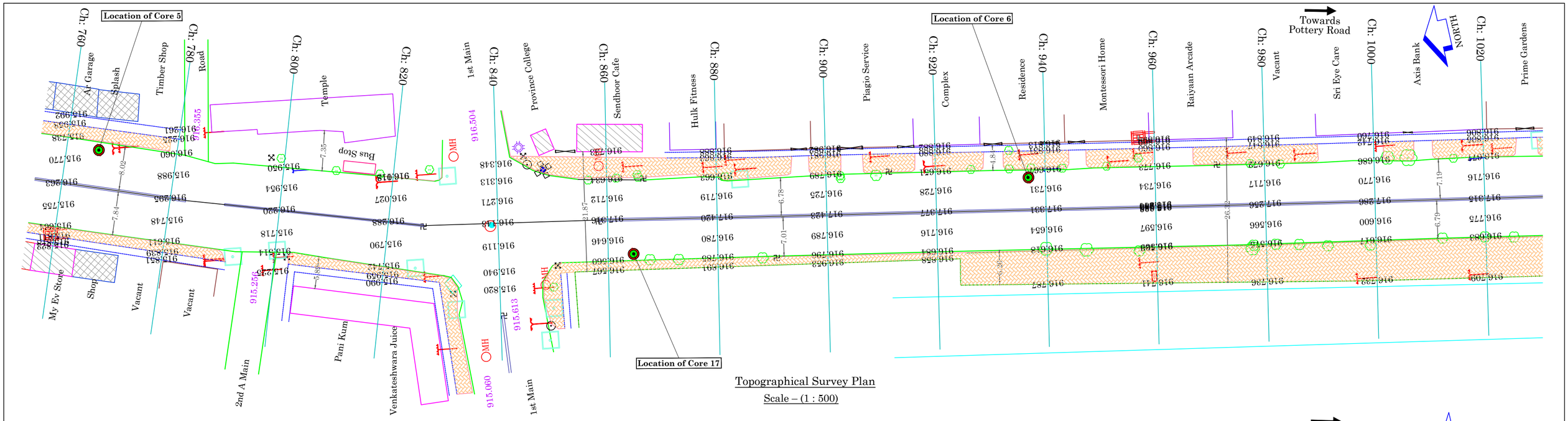
Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Hennur 80 ft. Main Road / TP & ECD / 401B

CONSULTANT:
MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17TH and 18TH Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:
BRUHAT BENGALURU MAHANAGARA PALIKE

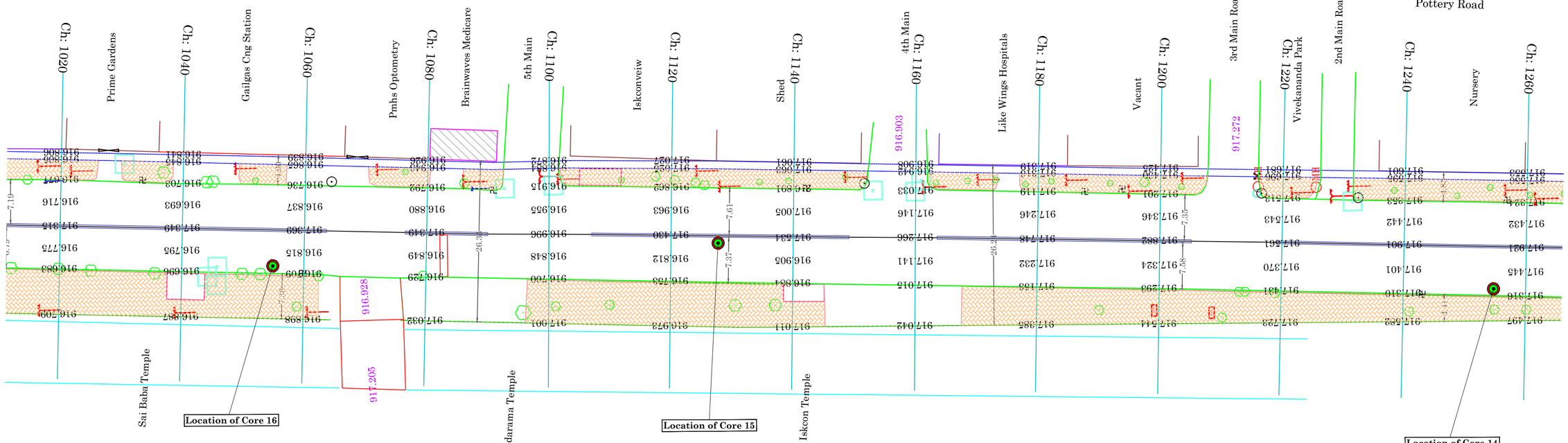
TITLE:
Topographical Survey Plan and Extracted Core Details
Hennur 80 ft. Main Road from Hennur Junction ORR to Lingarajapura Flyover
(from Ch: 300 to Ch: 760)

PROJECT:
Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

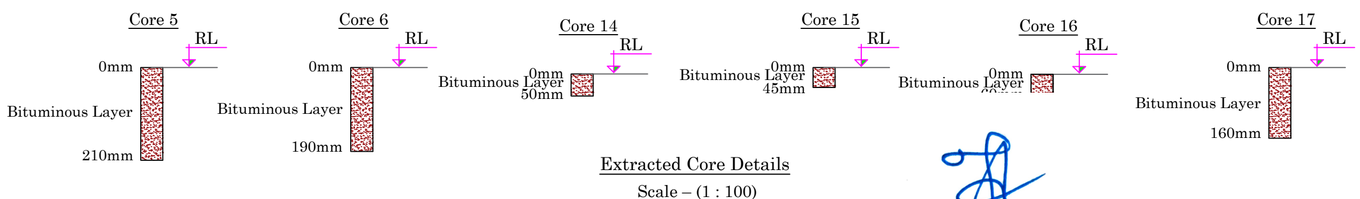


Topographical Survey Plan

Scale – (1 : 500)



FOR TENDER PURPOSE ONLY



Extracted Core Details

Scale – (1 : 100)

LEGEND:

Description	Symbol
Bench Mark	
Bituminous Road	
Borewell	
Bus Shelter	
Combined Chamber for Power Cables and Optical Fibre Cables	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
Flag Post	
GAIL Gas Line Indicative Stone	
Gate	
High Mast	
Interlock Paver Block	
Level	
Manhole	MH
Median	
Name Board	
Parking Bay	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	
Tree Pit	

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	3 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Hennur 80 ft. Main Road / TP & ECD / 401C

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

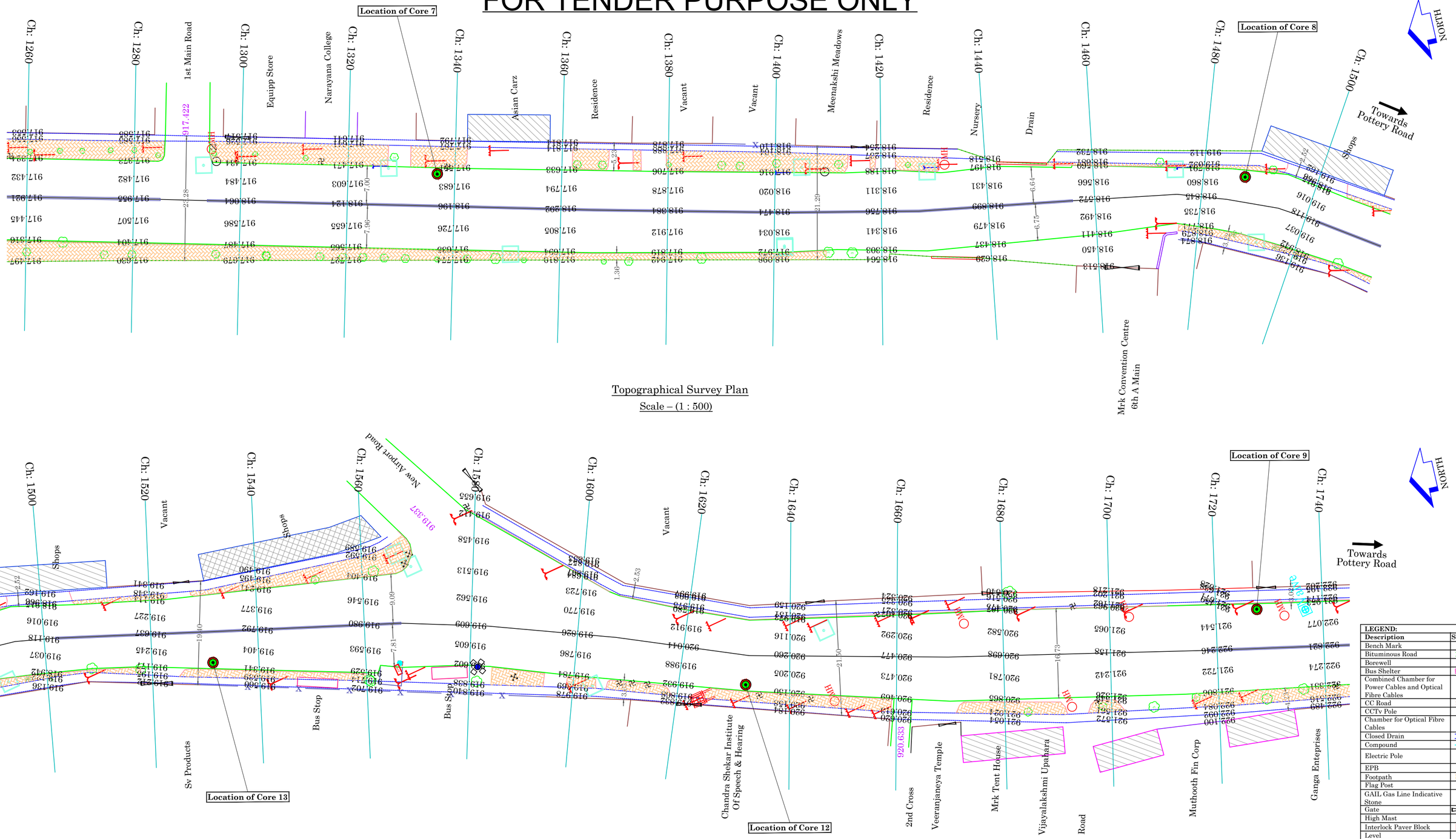
TITLE:

Top
Extracted Core Details
Hennur 80 ft. Main Road from Hennur Junction
ORR to Lingarajapura Flyover
(from Ch: 760 to Ch: 1260)

PROJECT:

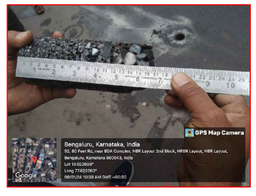
Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

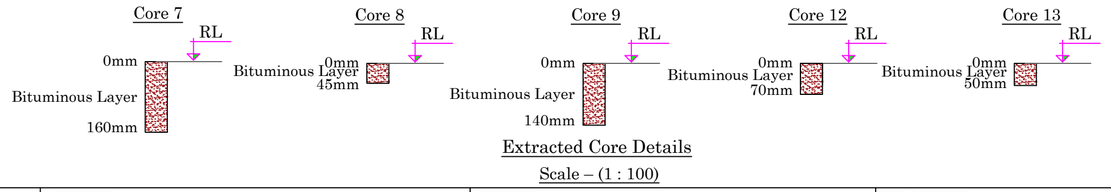
FOR TENDER PURPOSE ONLY



Topographical Survey Plan

Scale – (1 : 500)





Extracted Core Details

Scale – (1 : 100)

LEGEND:	
Description	**Symbol**
Bench Mark	
Bituminous Road	
Borewell	
Bus Shelter	
Combined Chamber for Power Cables and Optical Fibre Cables	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
Flag Post	
GAIL Gas Line Indicative Stone	
Gate	
High Mast	
Interlock Paver Block	
Level	
Manhole	MH
Median	
Name Board	
Parking Bay	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	
Tree Pit	

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	4 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Hennur 80 ft. Main Road / TP & ECD / 401D

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

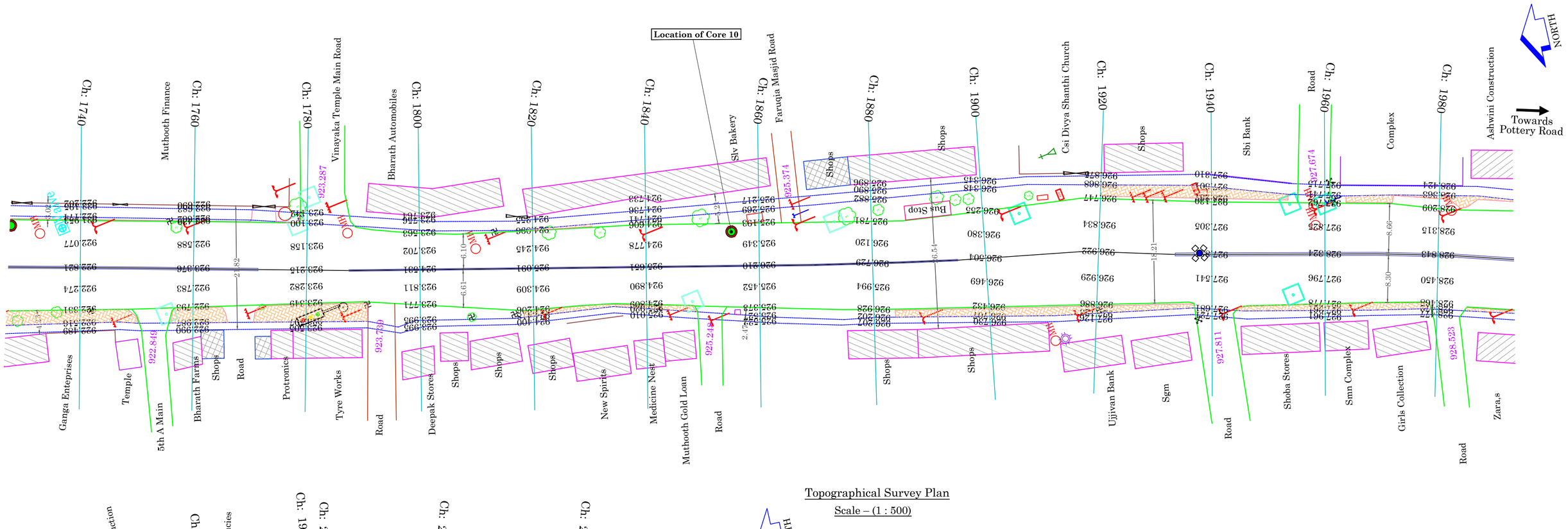
BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

Topographical Survey Plan and Extracted Core Details
Hennur 80 ft. Main Road from Hennur Junction ORR to Lingarajapura Flyover
(from Ch: 1260 to Ch: 1740)

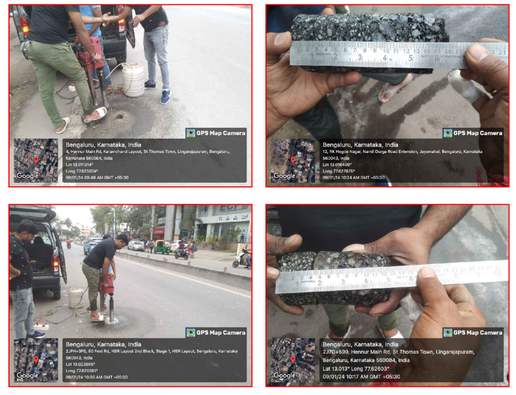
PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1



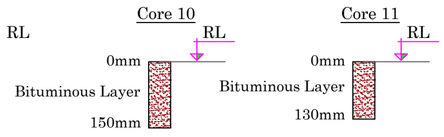
Topographical Survey Plan

Scale – (1 : 500)



Extracted Core Details

Scale – (1 : 100)



LEGEND:	
Description	**Symbol**
Bench Mark	
Bituminous Road	
Borewell	
Bus Shelter	
Combined Chamber for Power Cables and Optical Fibre Cables	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
Flag Post	
GAIL Gas Line Indicative Stone	
Gate	
High Mast	
Interlock Paver Block	
Level	
Manhole	MH
Median	
Name Board	
Parking Bay	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	
Tree Pit	

FOR TENDER PURPOSE ONLY

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	5 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Hennur 80 ft. Main Road / TP & ECD / 401E

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

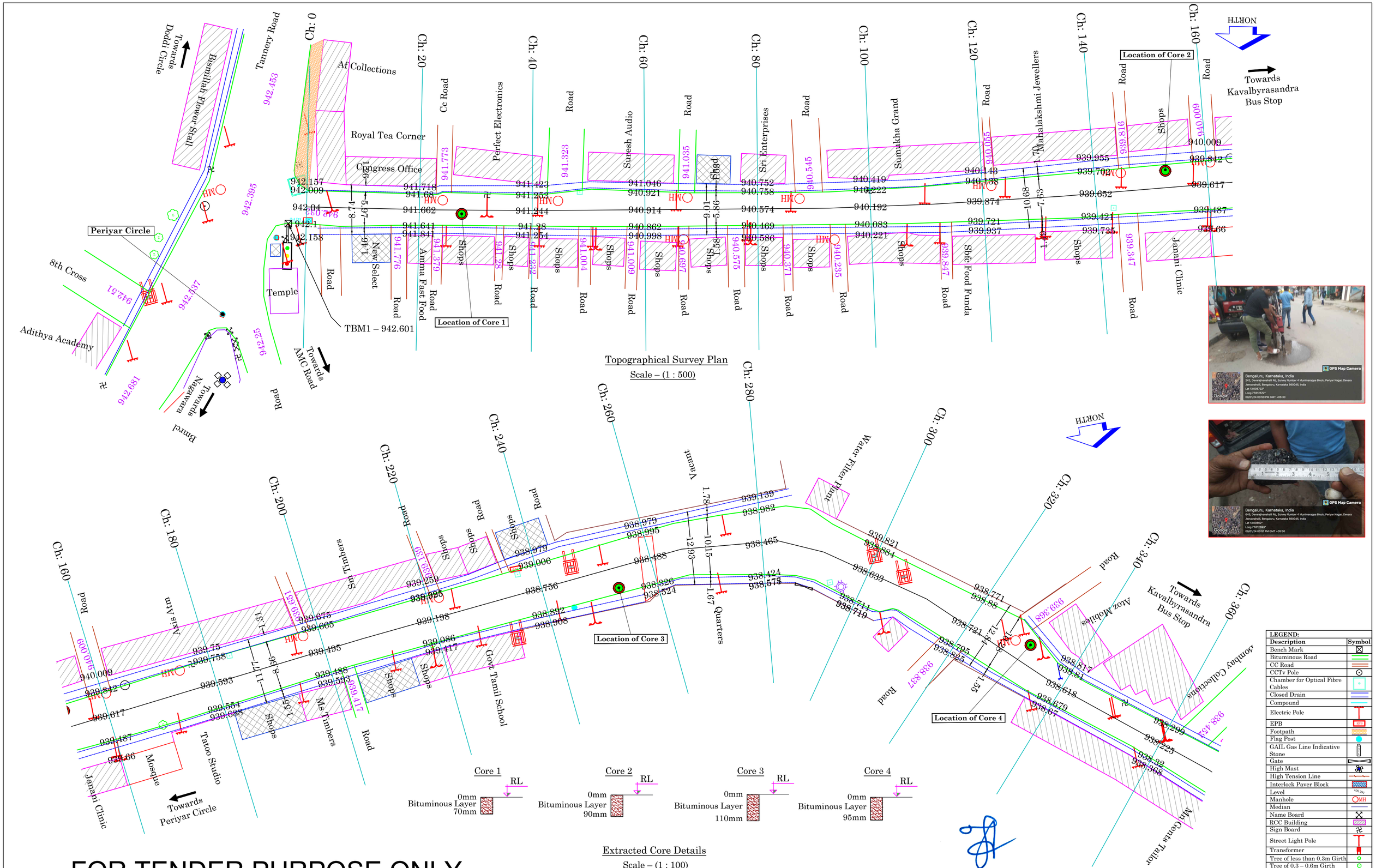
BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

Topographical Survey Plan and Extracted Core Details
Hennur 80 ft. Main Road from Hennur Junction ORR to Lingarajapura Flyover
(from Ch: 1740 to Ch: 2065)

PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1



Topographical Survey Plan

Scale – (1 : 500)

Extracted Core Details

Scale – (1 : 100)

Core 1	Core 2	Core 3	Core 4
RL	RL	RL	RL
0mm Bituminous Layer 70mm	0mm Bituminous Layer 90mm	0mm Bituminous Layer 110mm	0mm Bituminous Layer 95mm

LEGEND:

Description	Symbol
Bench Mark	
Bituminous Road	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
Flag Post	
GAIL Gas Line Indicative Stone	
Gate	
High Mast	
High Tension Line	
Interlock Paver Block	
Level	
Manhole	MH
Median	
Name Board	
RCC Building	
Sign Board	
Street Light Pole	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	

GPS Map Camera
Bengaluru, Karnataka, India
242, Devarajivanahalli Rd, Survey Number 4 Munimarappa Block, Periyar Nagar, Devara Jeevanahalli, Bengaluru, Karnataka 560045, India
Lat 13.008722°
Long 77.672570°
09/01/24 03:50 PM GMT +05:30
Google

GPS Map Camera
Bengaluru, Karnataka, India
K43, Devarajivanahalli Rd, Survey Number 4 Munimarappa Block, Periyar Nagar, Devara Jeevanahalli, Bengaluru, Karnataka 560045, India
Lat 13.008637°
Long 77.672570°
09/01/24 03:51 PM GMT +05:30
Google

FOR TENDER PURPOSE ONLY

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2789	A2	1 / 4

Dwg. No. MC / BBMP / 2789 / WT / PC – 2 / 29th Main Road / TP & ECD / 301A

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

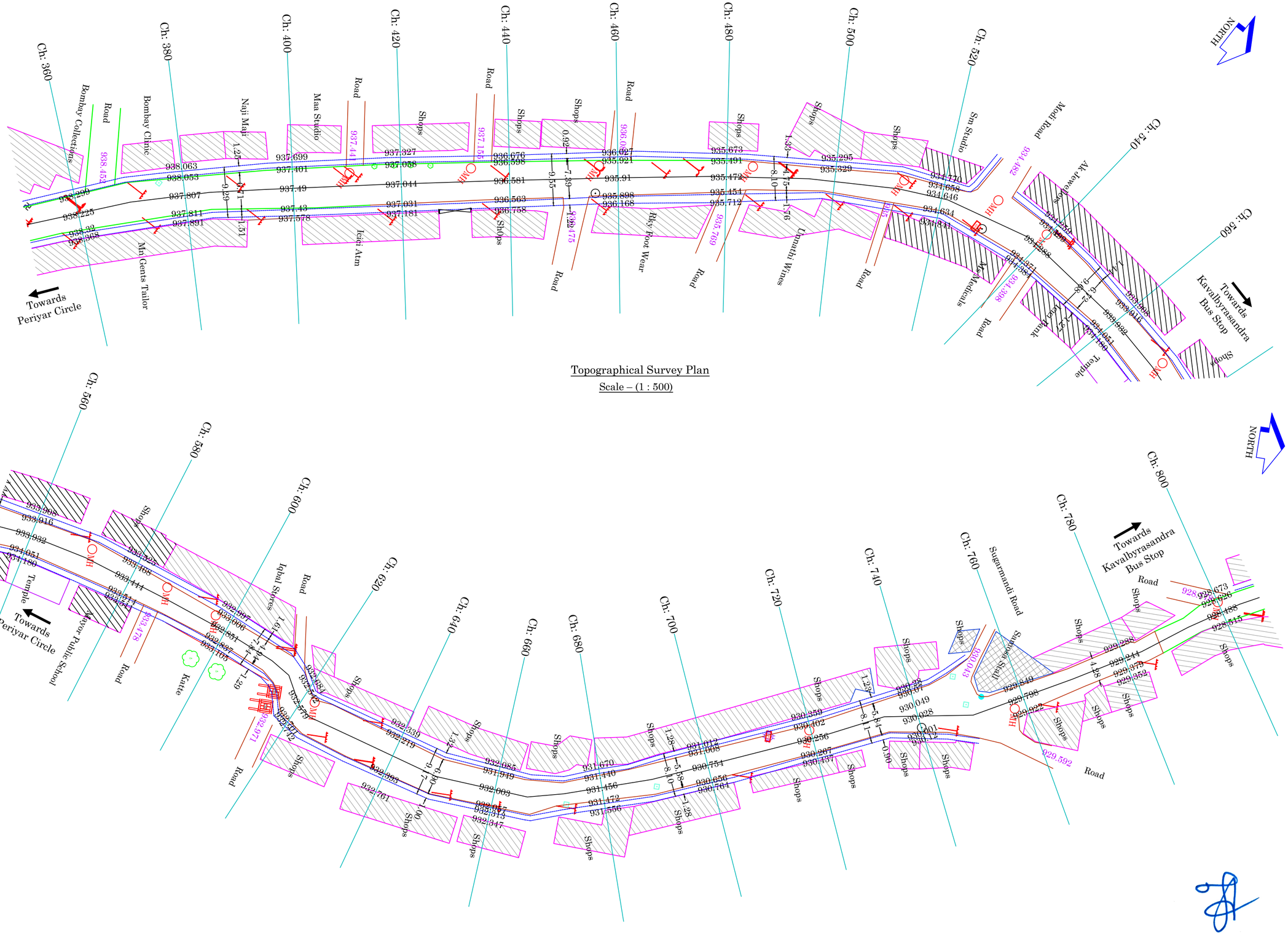
BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

Topographical Survey Plan and Extracted Core Details
DJ Halli Main Road from Periyar Circle to Kavalbyrasandra Bus Stop
(from Ch: 0 to Ch: 360)

PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City the Year 2023 – 24 under Package – 1



Topographical Survey Plan

Scale – (1 : 500)

FOR TENDER PURPOSE ONLY

LEGEND:	
Description	**Symbol**
Bench Mark	
Bituminous Road	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
Flag Post	
GAIL Gas Line Indicative Stone	
Gate	
High Mast	
High Tension Line	
Interlock Paver Block	
Level	
Manhole	MH
Median	
Name Board	
RCC Building	
Sign Board	
Street Light Pole	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2789	A2	2 / 4

Dwg. No. MC / BBMP / 2789 / WT / PC – 2 / 29th Main Road / TP & ECD / 301B

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

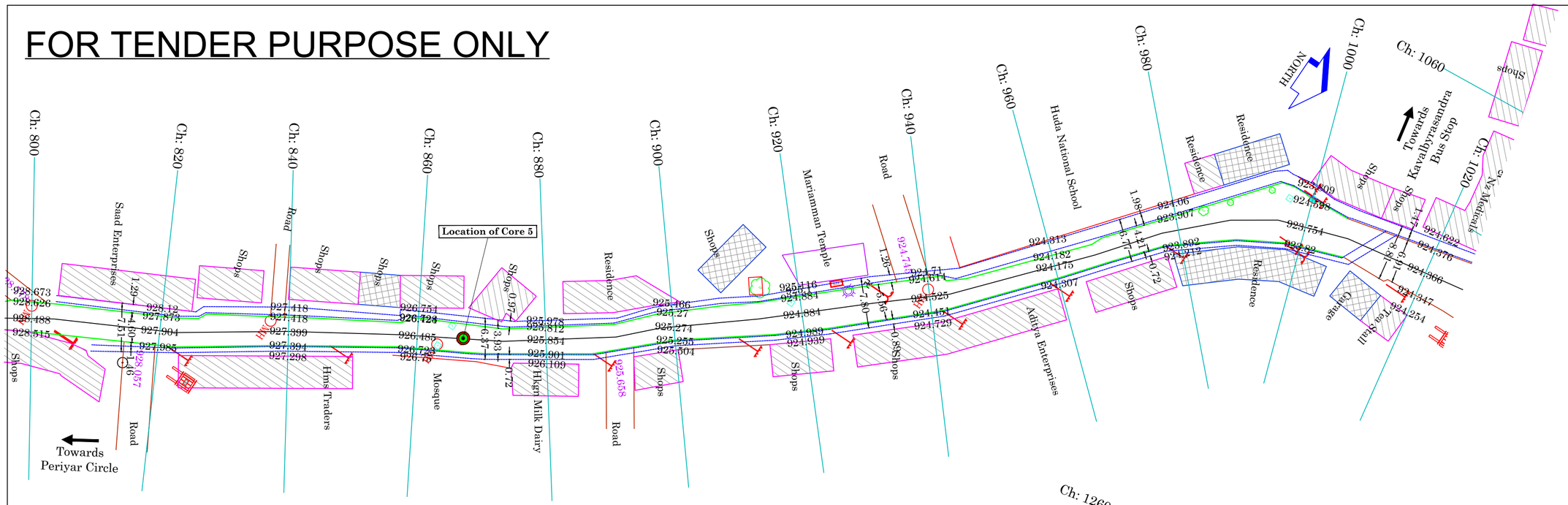
TITLE:

Topographical Survey Plan and Extracted Core Details
DJ Halli Main Road from Periyar Circle to Kavalbyrasandra Bus Stop
(from Ch: 360 to Ch: 800)

PROJECT:

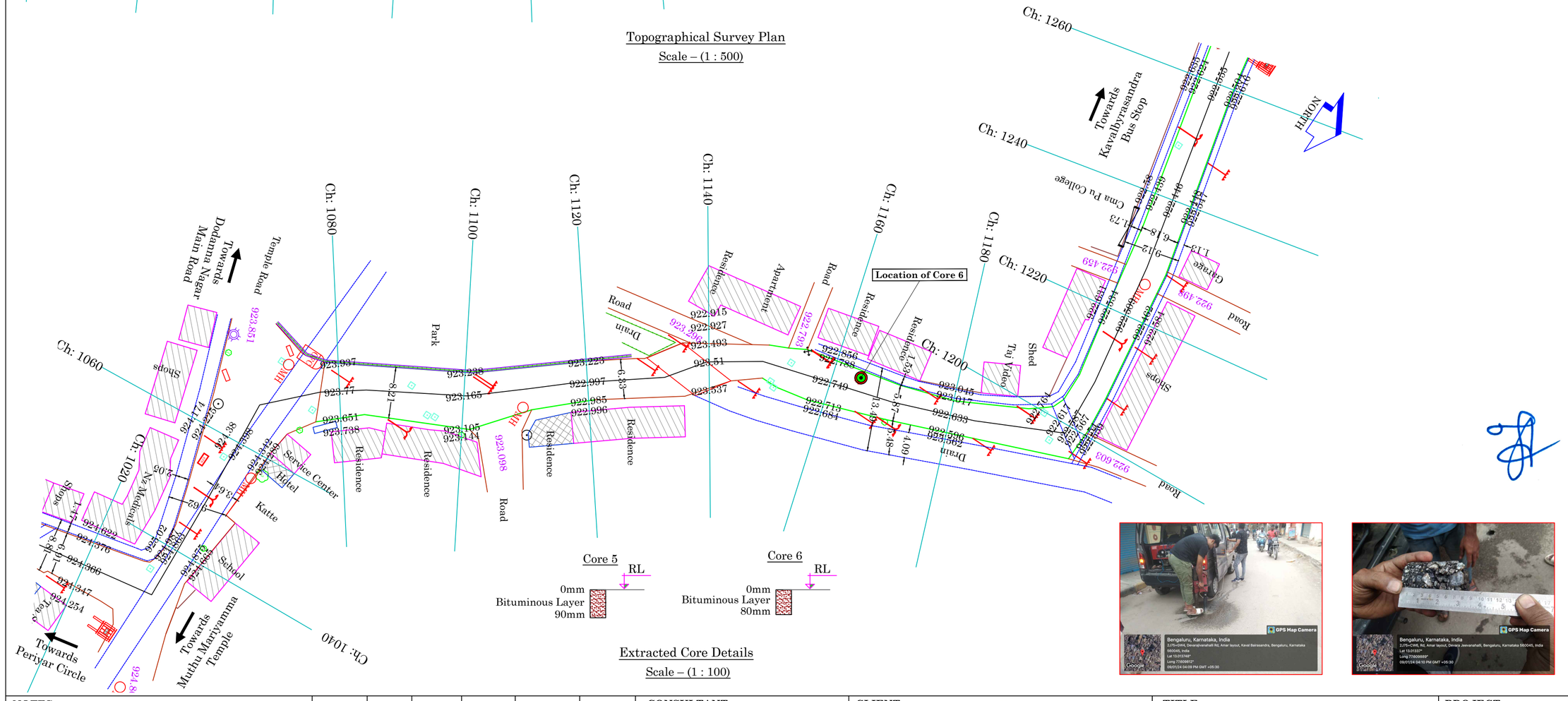
Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Topographical Survey Plan

Scale – (1 : 500)



Extracted Core Details

Scale – (1 : 100)

LEGEND:	
Description	**Symbol**
Bench Mark	
Bituminous Road	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
Flag Post	
GAIL Gas Line Indicative Stone	
Gate	
High Mast	
High Tension Line	
Interlock Paver Block	
Level	
Manhole	
Median	
Name Board	
RCC Building	
Sign Board	
Street Light Pole	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2789	A2	3 / 4

Dwg. No. MC / BBMP / 2789 / WT / PC – 2 / 29th Main Road / TP & ECD / 301C

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

Topographical Survey Plan and Extracted Core Details

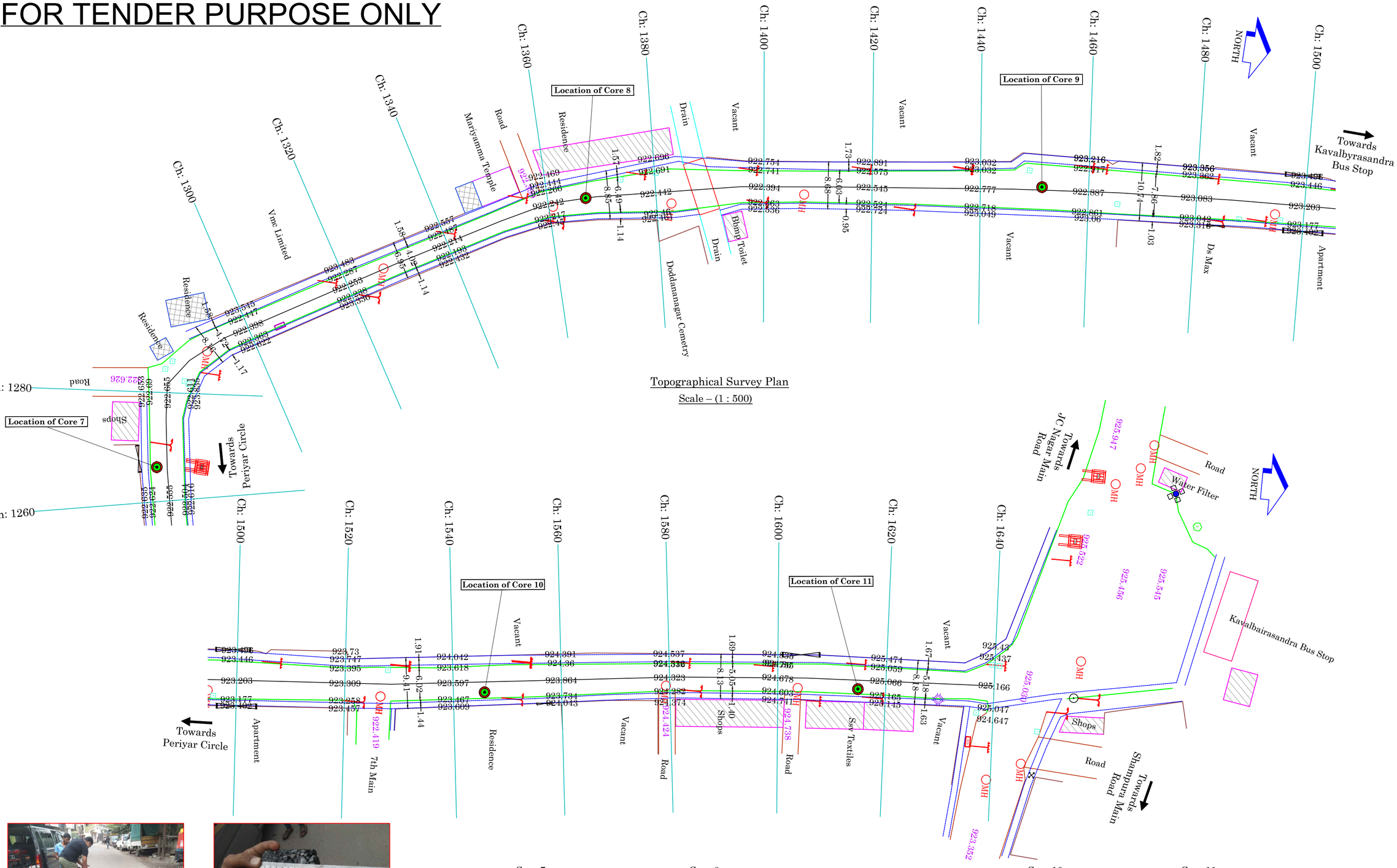
DJ Halli Main Road from Periyar Circle to Kavalbyrasandra Bus Stop

(from Ch: 800 to Ch: 1260)

PROJECT:

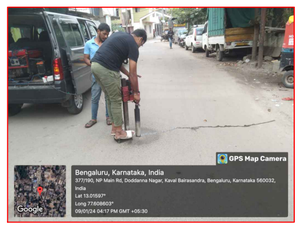
Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Topographical Survey Plan

Scale – (1 : 500)



Core 7
RL
0mm Bituminous Layer 80mm

Core 8
RL
0mm Bituminous Layer 75mm

Core 9
RL
0mm Bituminous Layer 110mm

Core 10
RL
0mm Bituminous Layer 85mm

Core 11
RL
0mm Bituminous Layer 85mm

Extracted Core Details

Scale – (1 : 100)

LEGEND:

Description	Symbol
Bench Mark	
Bituminous Road	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
Flag Post	
GAIL Gas Line Indicative Stone	
Gate	
High Mast	
High Tension Line	
Interlock Paver Block	
Level	
Manhole	
Median	
Name Board	
RCC Building	
Sign Board	
Street Light Pole	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2789	A2	4 / 4

Dwg. No. MC / BBMP / 2789 / WT / PC – 2 / 29th Main Road / TP & ECD / 301D

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

Topographical Survey Plan and Extracted Core Details

DJ Halli Main Road from Periyar Circle to Kavalbyrasandra Bus Stop

(from Ch: 1260 to Ch: 1640)

PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY

Towards Old Madras Road

Nagawara Junction

Towards Bellary Road (AH – 43)

Towards Shampura Road Junction

NORTH

Towards Outer Ring Road

Ch: 0 | Ch: 20 | Ch: 40 | Ch: 60 | Ch: 80 | Ch: 100 | Ch: 120 | Ch: 140 | Ch: 160 | Ch: 180 | Ch: 200

Mobile Solution | Shops | Road | Shops | Shops | Shops | Shops | Shops | Toilet | Drain | Shops | Century Aluminium | Ashish Interiors | Mukesh Textiles | Road | Mahima Enterprises | Road | Katte | Sri Sruthi Stores | Sri Jeyalakshmi Bakery

Al Helmet Palace | Cc Road | Kissan Hardware | Road | Mahadji Hardware | Road | Kathriguppe Footwear | Road | Shops | Location of Core 19 | Road | Shops | Building | Shops | Manju Paints | Chamundeshwari Real Estate | Sak Tours & Travels | Location of Core 18 | Road

Ch: 200 | Ch: 220 | Ch: 240 | Ch: 260 | Ch: 280 | Ch: 300 | Ch: 320 | Ch: 340 | Ch: 360 | Ch: 380 | Ch: 400 | Ch: 420

Sri Iyengar Bakery | Vasanthraj Medicals | Shops | Road | Vijayalakshmi Hotel | Mens Parlour | Road | Under Construction | Payal Jewellers | Cc Road | Ayur Central | Location of Core 1 | Temple | Temple | 14th Main | Pawan Electricals | Bakery | Road | Krishna Jewellers | Ak Key Makers | Cc Road | Hgp Plastic

Sangeetha Creations | Shops | Shops | Chehana Eye Care | Road | Aesthetic Dental Clinic | Liberty Bakery | Road | Metro Mattresses | Bus Stop | Shops | Shed | Classic Puncher Shop | Road | At Hardware & Tools | Mathaji Hardware | Cc Road | Adarsh Medicals | Bharath Studio

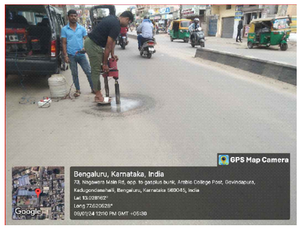
Towards Outer Ring Road

Towards Shampura Road Junction

Key Plan:

Topographical Survey Plan

Scale – (1 : 500)



Core 19 — RL — 0mm — Bituminous Layer — 150mm

Core 18 — RL — 0mm — Bituminous Layer — 150mm

Core 1 — RL — 0mm — Bituminous Layer — 120mm

Extracted Core Details

Scale – (1 : 100)

LEGEND:	
Description	Symbol
Bench Mark	
Bituminous Road	
Borewell	
Bus Shelter	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
Flag Post	
GAIL Gas Line Indicative Stone	
Gate	
Hand Pump	
High Mast	
Level	
Manhole	MH
Median	
Name Board	
Optical Fibre Cable Indicative Stone	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	1 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Nagawara Main Road / TP & ECD / 401A

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

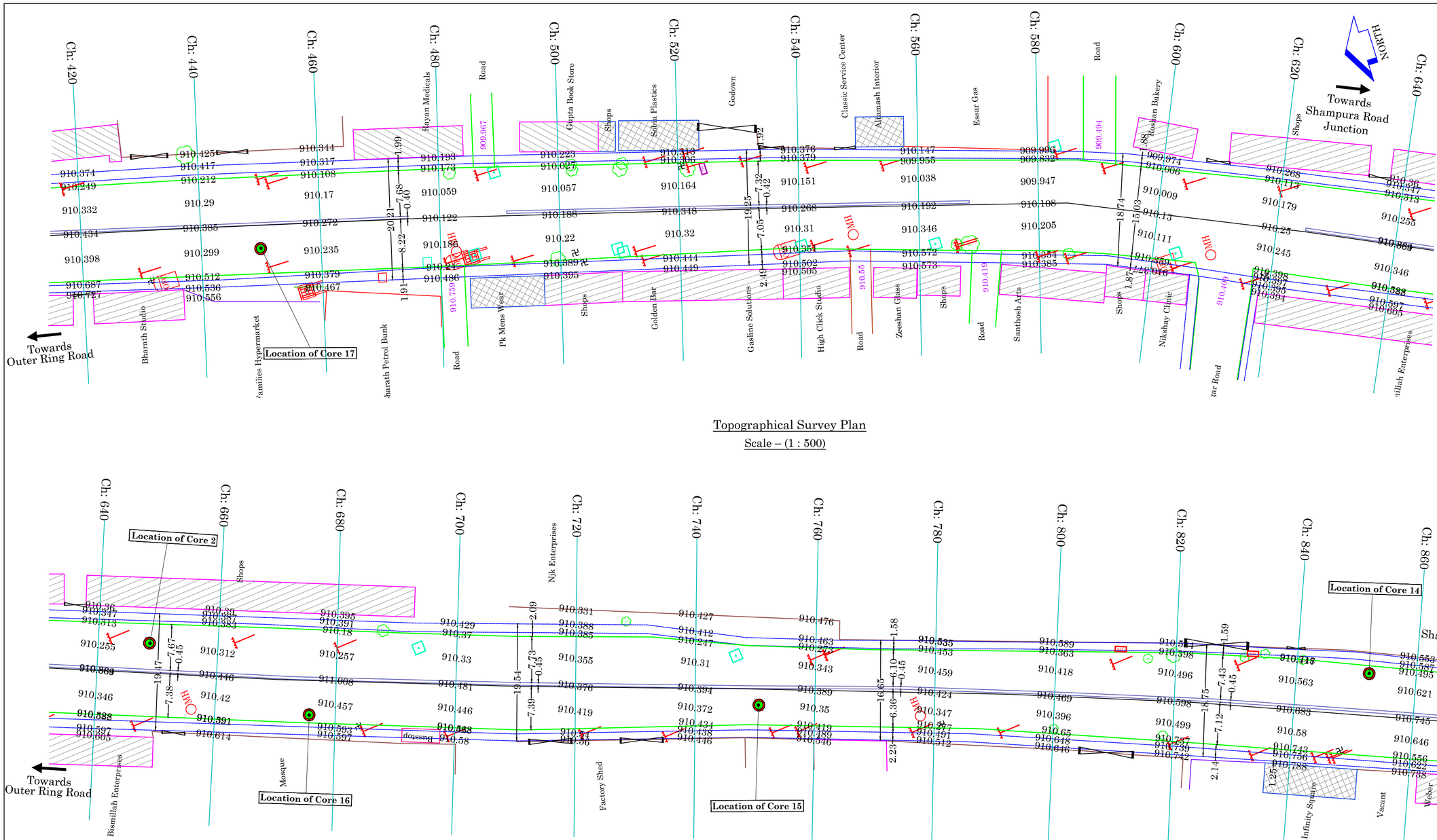
BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE: Topographical Survey Plan and Extracted Core Details

Nagawara Main Road from ORR to Shampura Road Junction
(from Ch: 0 to Ch: 420)

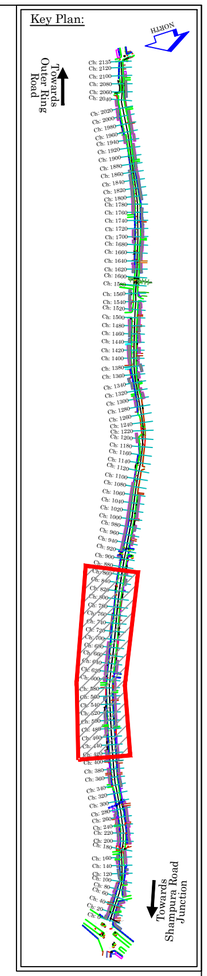
PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

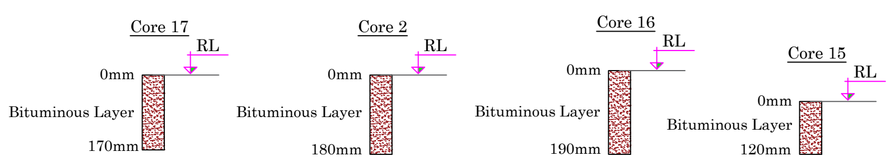


Topographical Survey Plan

Scale – (1 : 500)



FOR TENDER PURPOSE ONLY



Extracted Core Details

Scale – (1 : 100)

LEGEND:

Description	Symbol
Bench Mark	
Bituminous Road	
Borewell	
Bus Shelter	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
Flag Post	
GAIL Gas Line Indicative Stone	
Gate	
Hand Pump	
High Mast	
Level	
Manhole	
Median	
Name Board	
Optical Fibre Cable Indicative Stone	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	2 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Nagawara Main Road / TP & ECD / 401B

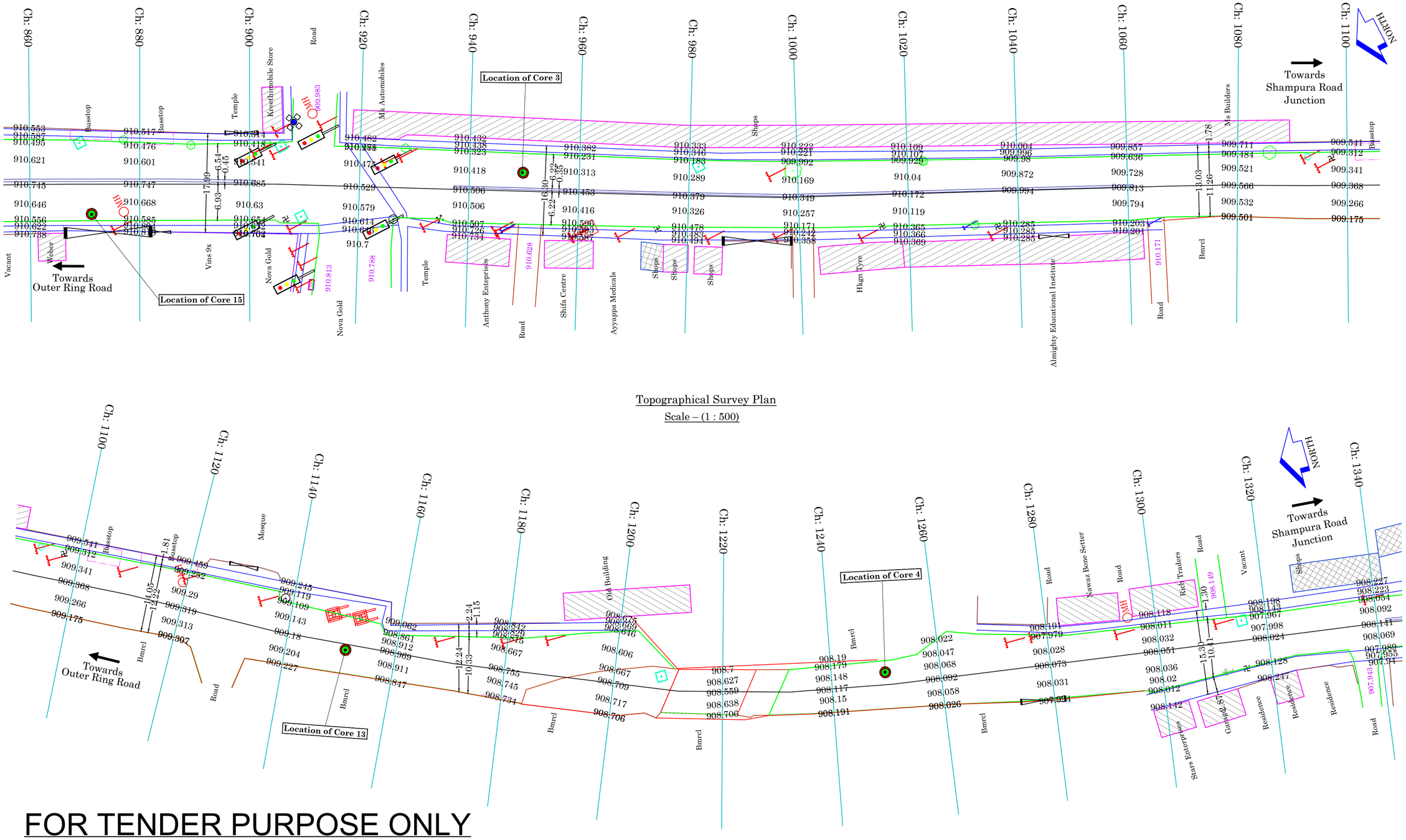
CONSULTANT:
MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:
BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE: Topographical Survey Plan and Extracted Core Details

Nagawara Main Road from ORR to Shampura Road Junction
(from Ch: 420 to Ch: 860)

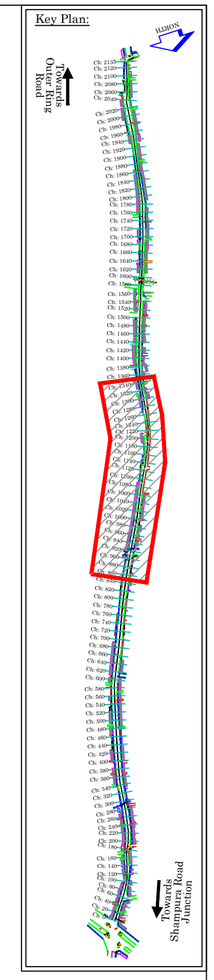
PROJECT:
Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1



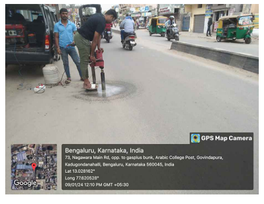
Topographical Survey Plan

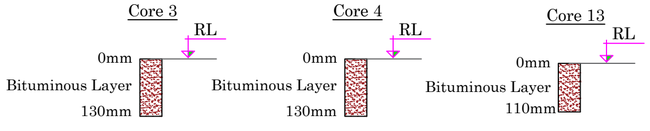
Scale – (1 : 500)

Key Plan:



FOR TENDER PURPOSE ONLY





Extracted Core Details

Scale – (1 : 100)

LEGEND:

Description	Symbol
Bench Mark	
Bituminous Road	
Borewell	
Bus Shelter	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
Flag Post	
GAIL Gas Line Indicative Stone	
Gate	
Hand Pump	
High Mast	
Level	
Manhole	MH
Median	
Name Board	
Optical Fibre Cable Indicative Stone	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	3 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Nagawara Main Road / TP & ECD / 401C

CONSULTANT:
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CONSULTING ENGINEERS AND DESIGNERS
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Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

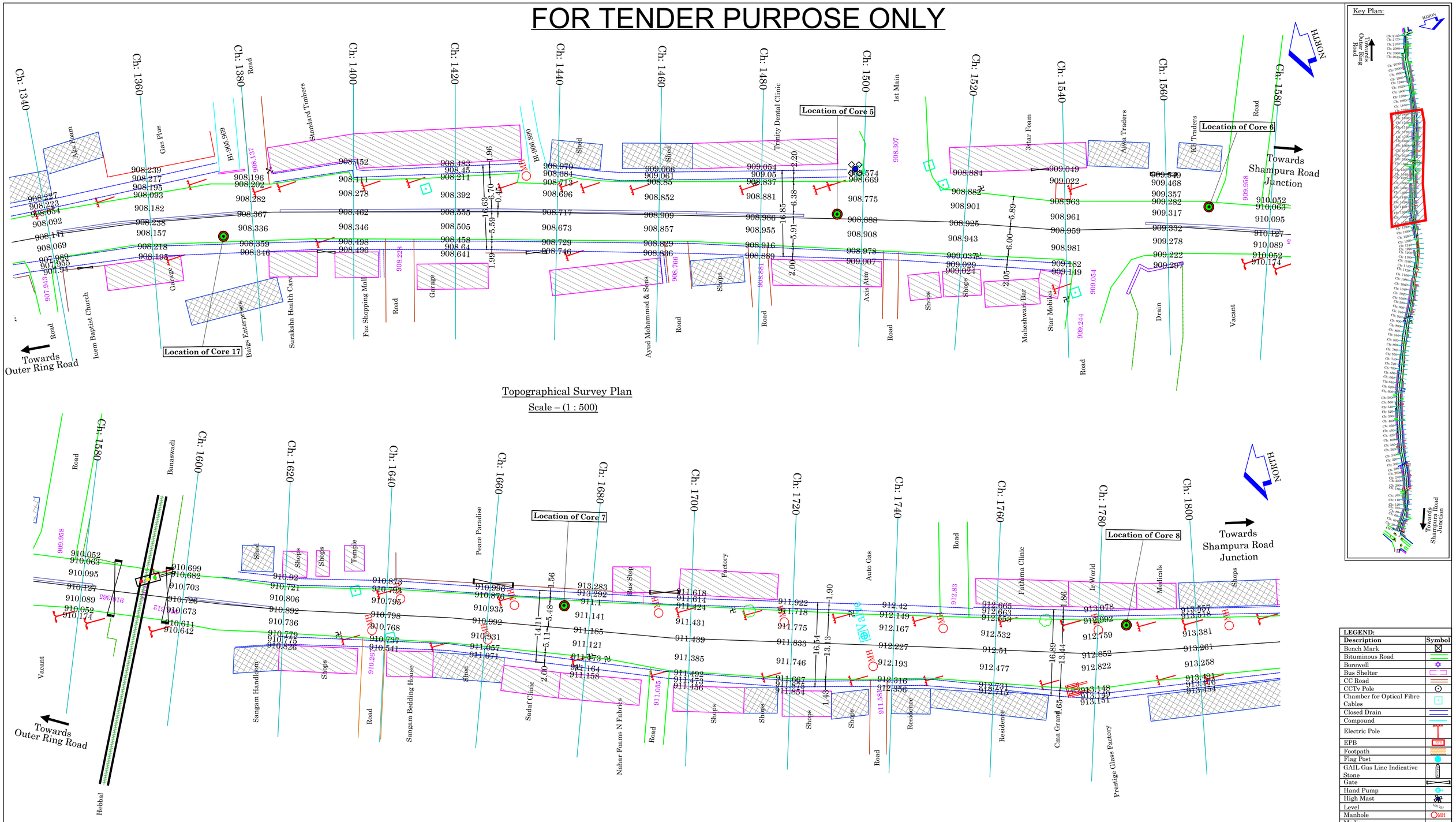
CLIENT:
BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE: Topographical Survey Plan and Extracted Core Details

Nagawara Main Road from ORR to Shampura Road Junction
(from Ch: 860 to Ch: 1340)

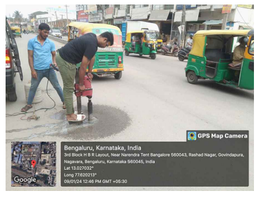
PROJECT:
Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

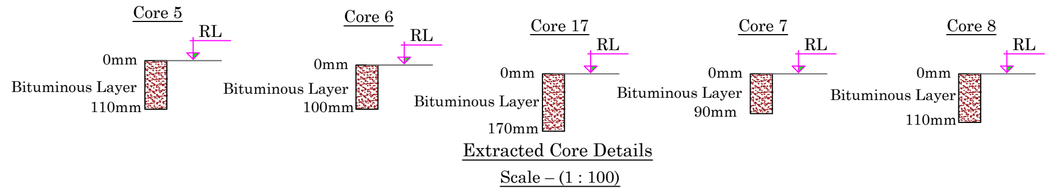
FOR TENDER PURPOSE ONLY



Topographical Survey Plan

Scale – (1 : 500)





Extracted Core Details

Scale – (1 : 100)

LEGEND:	
Description	**Symbol**
Bench Mark	
Bituminous Road	
Borewell	
Bus Shelter	
CC Road	
CCTV Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
Flag Post	
GAIL Gas Line Indicative Stone	
Gate	
Hand Pump	
High Mast	
Level	
Manhole	
Median	
Name Board	
Optical Fibre Cable Indicative Stone	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	4 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Nagawara Main Road / TP & ECD / 401D

CONSULTANT:

MANASA CONSULTANTS
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Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

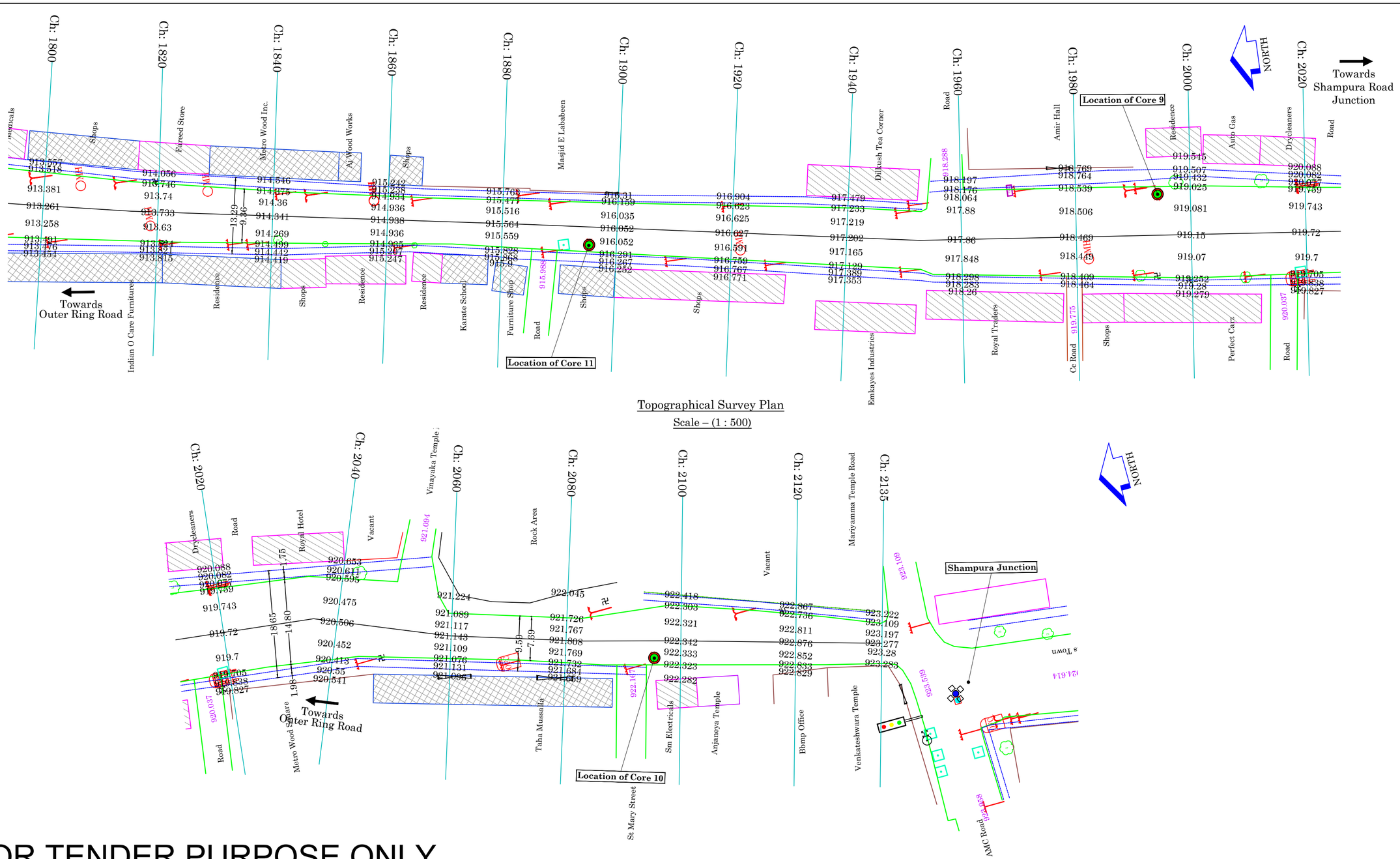
BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE: Topographical Survey Plan and Extracted Core Details

Nagawara Main Road from ORR to Shampura Road Junction
(from Ch: 1340 to Ch: 1800)

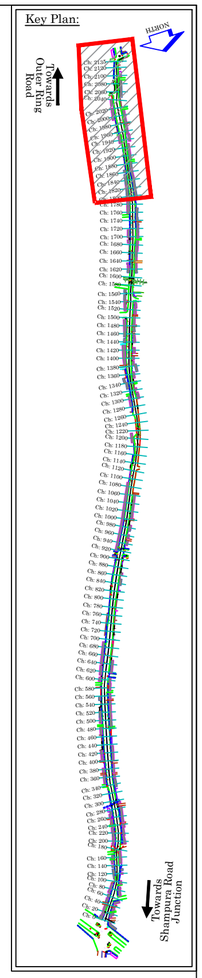
PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

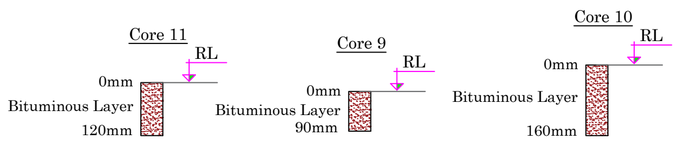


Topographical Survey Plan

Scale – (1 : 500)



FOR TENDER PURPOSE ONLY



Extracted Core Details

Scale – (1 : 100)

LEGEND:

Description	Symbol
Bench Mark	
Bituminous Road	
Borewell	
Bus Shelter	
CC Road	
CCTv Pole	
Chamber for Optical Fibre Cables	
Closed Drain	
Compound	
Electric Pole	
EPB	
Footpath	
Flag Post	
GAIL Gas Line Indicative Stone	
Gate	
Hand Pump	
High Mast	
Level	
Manhole	
Median	
Name Board	
Optical Fibre Cable Indicative Stone	
RCC Building	
Sign Board	
Signal Post	
Street Light Pole	
Temple	
Transformer	
Tree of less than 0.3m Girth	
Tree of 0.3 – 0.6m Girth	
Tree of 0.6 – 0.9m Girth	
Tree of 0.9 – 1.8m Girth	
Tree above 1.8m Girth	

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	5 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Nagawara Main Road / TP & ECD / 401E

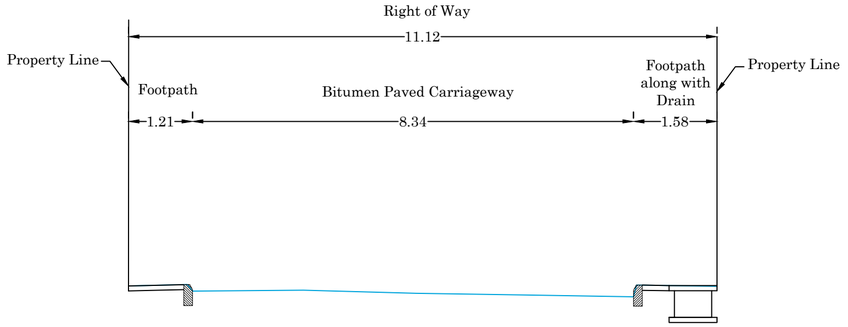
CONSULTANT:
MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:
BRUHAT BENGALURU MAHANAGARA PALIKE

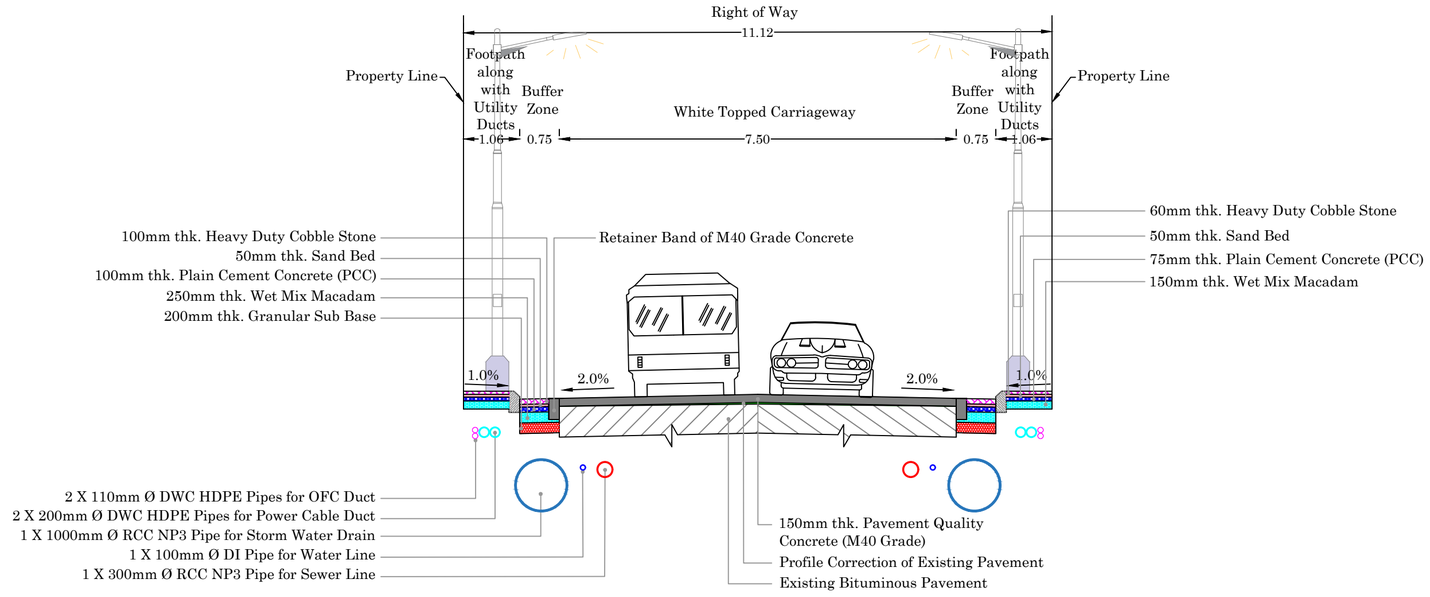
TITLE: Topographical Survey Plan and Extracted Core Details
Nagawara Main Road from ORR to Shampura Road Junction
(from Ch: 1800 to Ch: 2135)

PROJECT:
Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Existing Cross Section at Ch: 260


Right of Way
11.12
Property Line
Footpath along with Utility Ducts
Buffer Zone
White Topped Carriageway
Buffer Zone
Footpath along with Utility Ducts
Property Line
1.06
0.75
7.50
0.75
1.06
100mm thk. Heavy Duty Cobble Stone
50mm thk. Sand Bed
100mm thk. Plain Cement Concrete (PCC)
250mm thk. Wet Mix Macadam
200mm thk. Granular Sub Base
Retainer Band of M40 Grade Concrete
60mm thk. Heavy Duty Cobble Stone
50mm thk. Sand Bed
75mm thk. Plain Cement Concrete (PCC)
150mm thk. Wet Mix Macadam
1.0%
2.0%
2.0%
1.0%
2 X 110mm Ø DWC HDPE Pipes for OFC Duct
2 X 200mm Ø DWC HDPE Pipes for Power Cable Duct
1 X 1000mm Ø RCC NP3 Pipe for Storm Water Drain
1 X 100mm Ø DI Pipe for Water Line
1 X 300mm Ø RCC NP3 Pipe for Sewer Line
150mm thk. Pavement Quality Concrete (M40 Grade)
Profile Correction of Existing Pavement
Existing Bituminous Pavement

Proposed Typical Cross Section

Abbreviation:

DI	: Ductile Iron
DWC	: Double Wall Corrugated
HDPE	: High Density Polyethylene
NP3	: Non Pressure of Class 3

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	NTS	R0	2788	A2	1 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Tannery Road / TCS / 104A

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

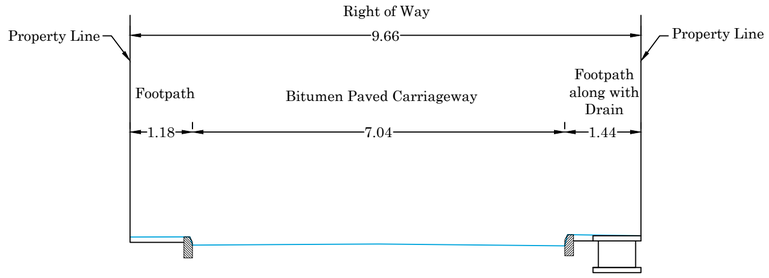
Proposed Typical Cross Section Details

Tannery Road from Doddi Circle to Venkateshpura Circle

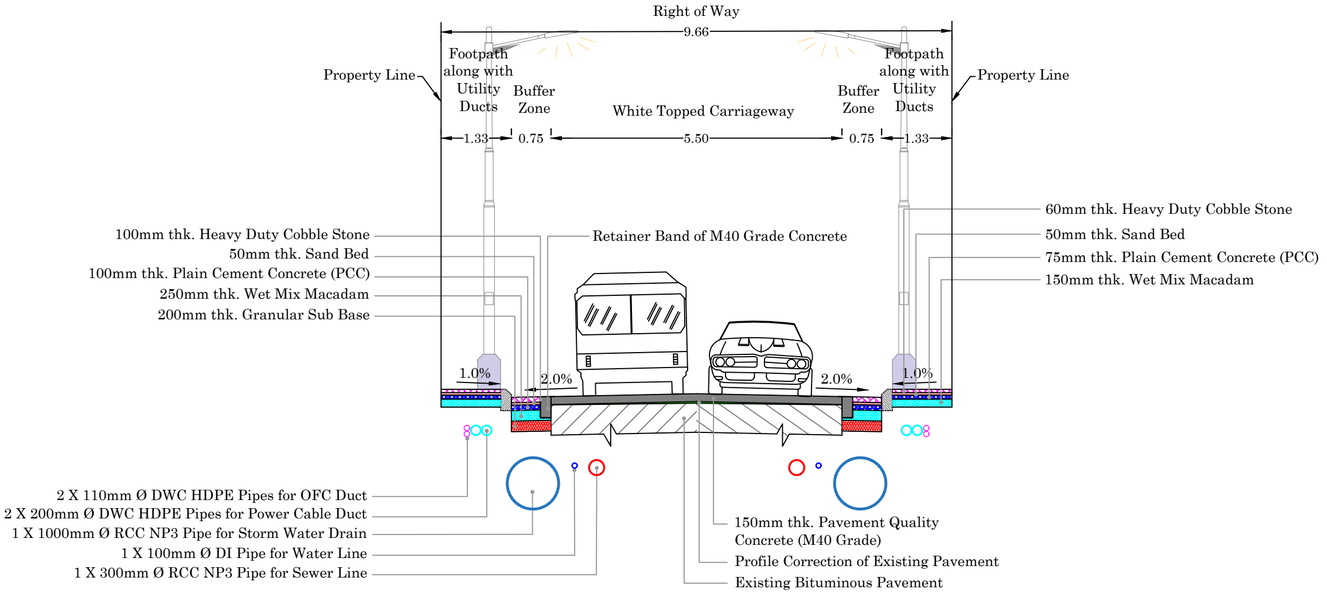
PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Existing Cross Section at Ch: 320


Right of Way
9.66
Property Line
Property Line
Footpath along with Utility Ducts
Buffer Zone
White Topped Carriageway
Buffer Zone
Footpath along with Utility Ducts
1.33
0.75
5.50
0.75
1.33
60mm thk. Heavy Duty Cobble Stone
50mm thk. Sand Bed
75mm thk. Plain Cement Concrete (PCC)
150mm thk. Wet Mix Macadam
100mm thk. Heavy Duty Cobble Stone
50mm thk. Sand Bed
100mm thk. Plain Cement Concrete (PCC)
250mm thk. Wet Mix Macadam
200mm thk. Granular Sub Base
Retainer Band of M40 Grade Concrete
1.0%
2.0%
2.0%
1.0%
2 X 110mm Ø DWC HDPE Pipes for OFC Duct
2 X 200mm Ø DWC HDPE Pipes for Power Cable Duct
1 X 1000mm Ø RCC NP3 Pipe for Storm Water Drain
1 X 100mm Ø DI Pipe for Water Line
1 X 300mm Ø RCC NP3 Pipe for Sewer Line
150mm thk. Pavement Quality Concrete (M40 Grade)
Profile Correction of Existing Pavement
Existing Bituminous Pavement

Proposed Typical Cross Section

Abbreviation:

DI	: Ductile Iron
DWC	: Double Wall Corrugated
HDPE	: High Density Polyethylene
NP3	: Non Pressure of Class 3

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	NTS	R0	2788	A2	2 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Tannery Road / TCS / 104B

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

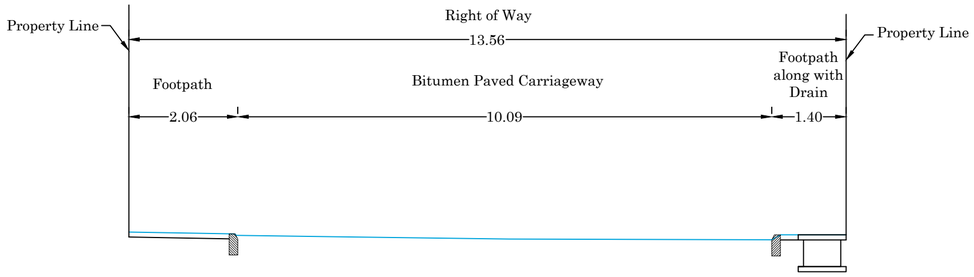
Proposed Typical Cross Section Details

Tannery Road from Doddi Circle to Venkateshpura Circle

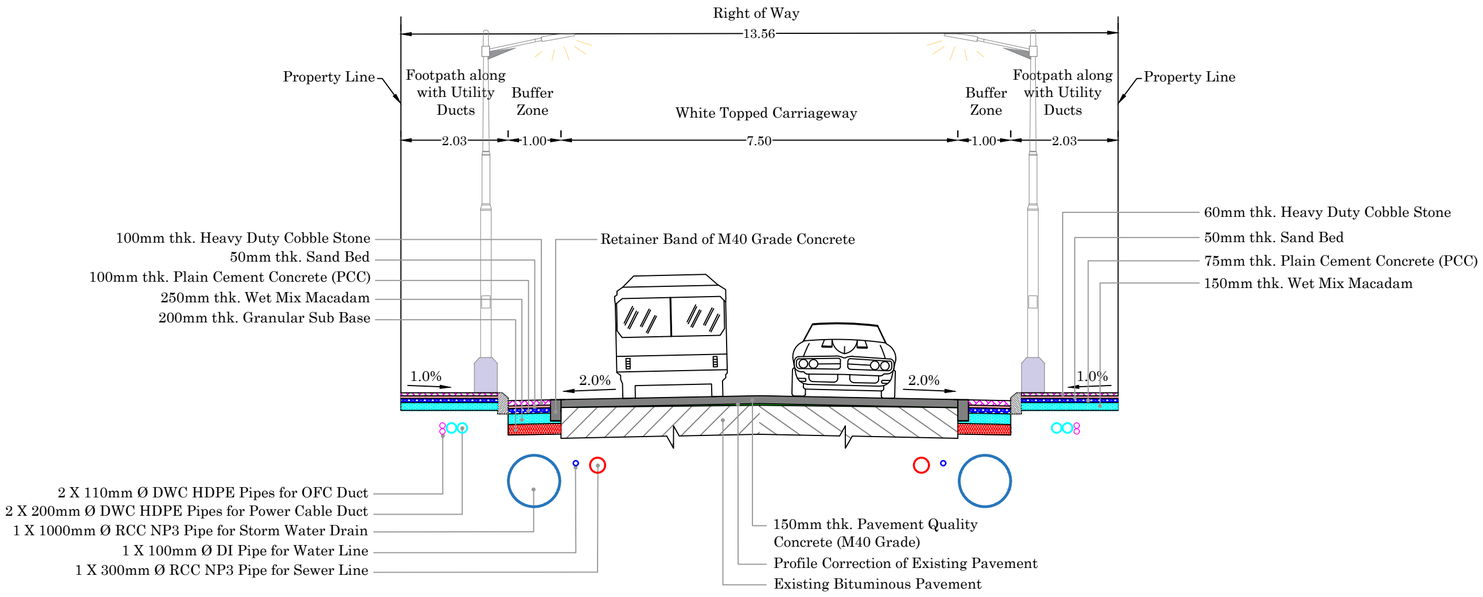
PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Existing Cross Section at Ch: 620


Right of Way
13.56
Property Line
Footpath along with Utility Ducts
Buffer Zone
White Topped Carriageway
Buffer Zone
Footpath along with Utility Ducts
Property Line
2.03
1.00
7.50
1.00
2.03
100mm thk. Heavy Duty Cobble Stone
50mm thk. Sand Bed
100mm thk. Plain Cement Concrete (PCC)
250mm thk. Wet Mix Macadam
200mm thk. Granular Sub Base
Retainer Band of M40 Grade Concrete
60mm thk. Heavy Duty Cobble Stone
50mm thk. Sand Bed
75mm thk. Plain Cement Concrete (PCC)
150mm thk. Wet Mix Macadam
1.0%
2.0%
2.0%
1.0%
2 X 110mm Ø DWC HDPE Pipes for OFC Duct
2 X 200mm Ø DWC HDPE Pipes for Power Cable Duct
1 X 1000mm Ø RCC NP3 Pipe for Storm Water Drain
1 X 100mm Ø DI Pipe for Water Line
1 X 300mm Ø RCC NP3 Pipe for Sewer Line
150mm thk. Pavement Quality Concrete (M40 Grade)
Profile Correction of Existing Pavement
Existing Bituminous Pavement

Proposed Typical Cross Section

Abbreviation:

DI	: Ductile Iron
DWC	: Double Wall Corrugated
HDPE	: High Density Polyethylene
NP3	: Non Pressure of Class 3

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	NTS	R0	2788	A2	3 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Tannery Road / TCS / 104C

CONSULTANT:

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email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

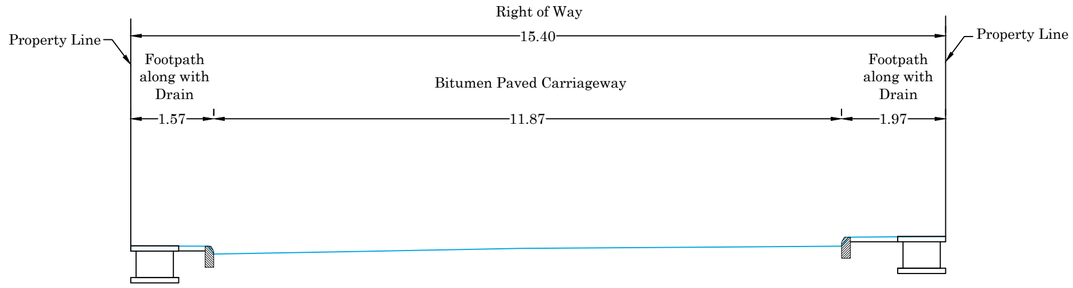
Proposed Typical Cross Section Details

Tannery Road from Doddi Circle to Venkateshpura Circle

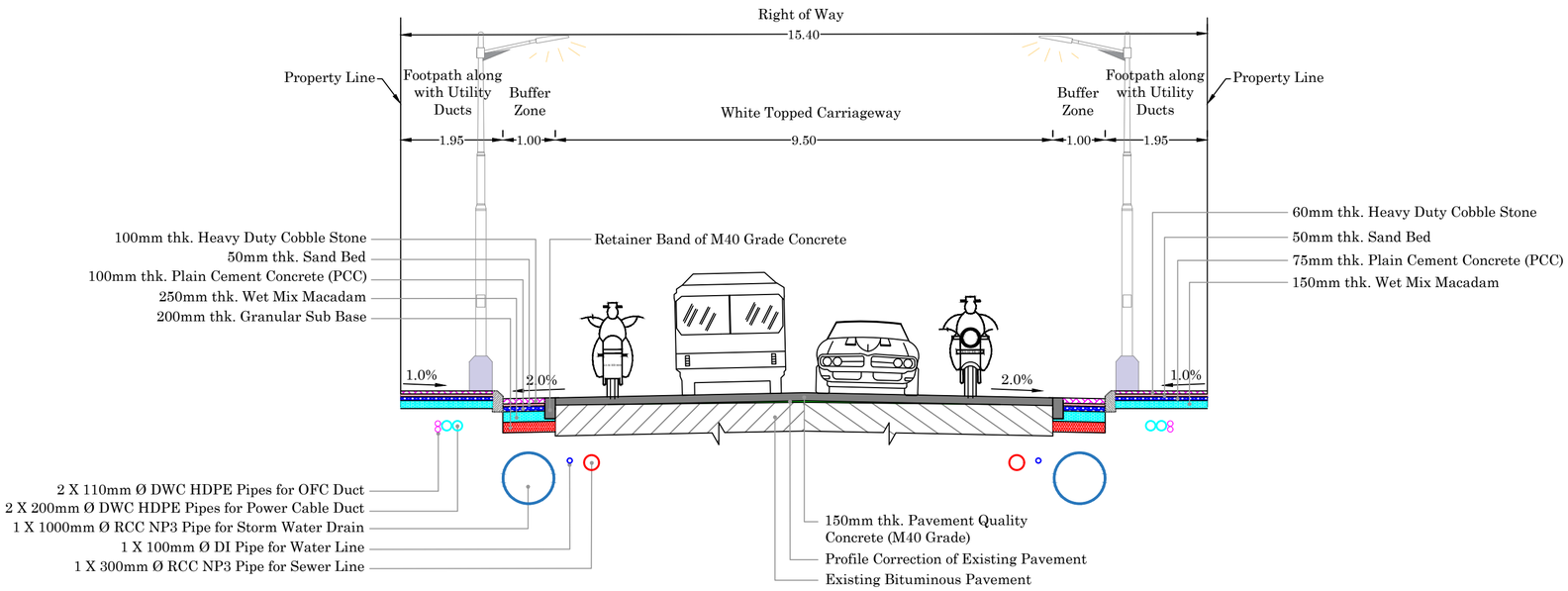
PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Existing Cross Section at Ch: 1020


Right of Way
15.40
Property Line
Footpath along with Utility Ducts
Buffer Zone
White Topped Carriageway
Buffer Zone
Footpath along with Utility Ducts
Property Line
1.95
1.00
9.50
1.00
1.95
100mm thk. Heavy Duty Cobble Stone
50mm thk. Sand Bed
100mm thk. Plain Cement Concrete (PCC)
250mm thk. Wet Mix Macadam
200mm thk. Granular Sub Base
Retainer Band of M40 Grade Concrete
60mm thk. Heavy Duty Cobble Stone
50mm thk. Sand Bed
75mm thk. Plain Cement Concrete (PCC)
150mm thk. Wet Mix Macadam
1.0%
2.0%
2.0%
1.0%
2 X 110mm Ø DWC HDPE Pipes for OFC Duct
2 X 200mm Ø DWC HDPE Pipes for Power Cable Duct
1 X 1000mm Ø RCC NP3 Pipe for Storm Water Drain
1 X 100mm Ø DI Pipe for Water Line
1 X 300mm Ø RCC NP3 Pipe for Sewer Line
150mm thk. Pavement Quality Concrete (M40 Grade)
Profile Correction of Existing Pavement
Existing Bituminous Pavement

Proposed Typical Cross Section

Abbreviation:

DI	: Ductile Iron
DWC	: Double Wall Corrugated
HDPE	: High Density Polyethylene
NP3	: Non Pressure of Class 3

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	NTS	R0	2788	A2	4 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Tannery Road / TCS / 104D

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

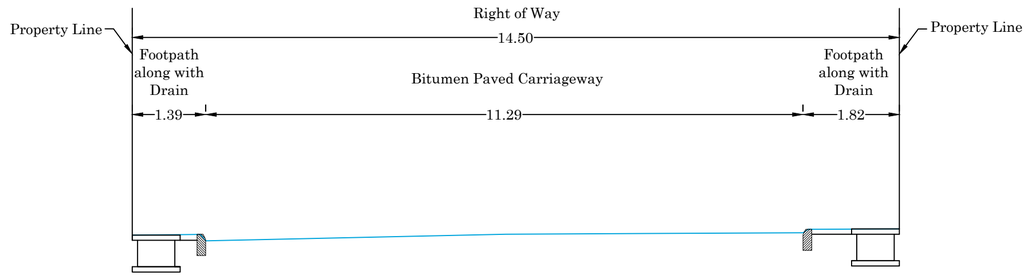
Proposed Typical Cross Section Details

Tannery Road from Doddi Circle to Venkateshpura Circle

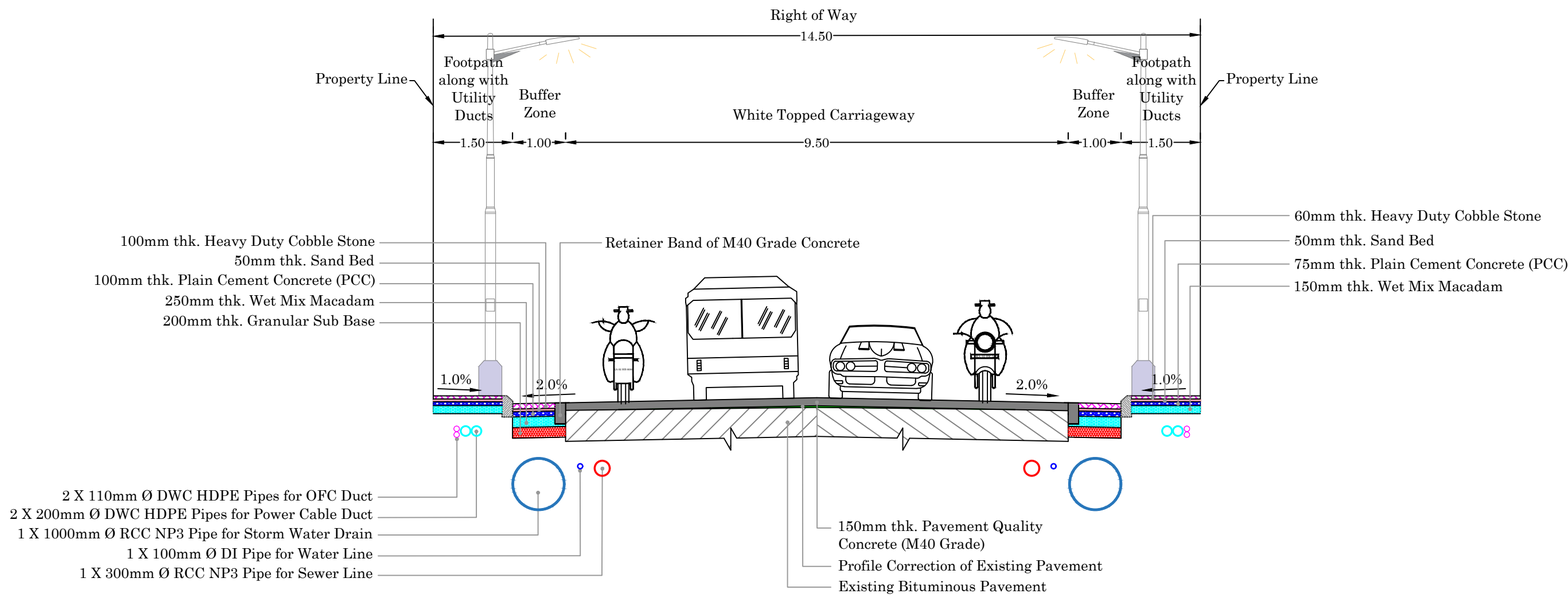
PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Existing Cross Section at Ch: 1700


Right of Way
14.50
Property Line
Footpath along with Utility Ducts
Buffer Zone
White Topped Carriageway
Buffer Zone
Footpath along with Utility Ducts
Property Line
1.50
1.00
9.50
1.00
1.50
100mm thk. Heavy Duty Cobble Stone
50mm thk. Sand Bed
100mm thk. Plain Cement Concrete (PCC)
250mm thk. Wet Mix Macadam
200mm thk. Granular Sub Base
Retainer Band of M40 Grade Concrete
60mm thk. Heavy Duty Cobble Stone
50mm thk. Sand Bed
75mm thk. Plain Cement Concrete (PCC)
150mm thk. Wet Mix Macadam
1.0%
2.0%
2.0%
1.0%
2 X 110mm Ø DWC HDPE Pipes for OFC Duct
2 X 200mm Ø DWC HDPE Pipes for Power Cable Duct
1 X 1000mm Ø RCC NP3 Pipe for Storm Water Drain
1 X 100mm Ø DI Pipe for Water Line
1 X 300mm Ø RCC NP3 Pipe for Sewer Line
150mm thk. Pavement Quality Concrete (M40 Grade)
Profile Correction of Existing Pavement
Existing Bituminous Pavement

Proposed Typical Cross Section

Abbreviation:

DI	: Ductile Iron
DWC	: Double Wall Corrugated
HDPE	: High Density Polyethylene
NP3	: Non Pressure of Class 3

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	NTS	R0	2788	A2	5 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Tannery Road / TCS / 104 E

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

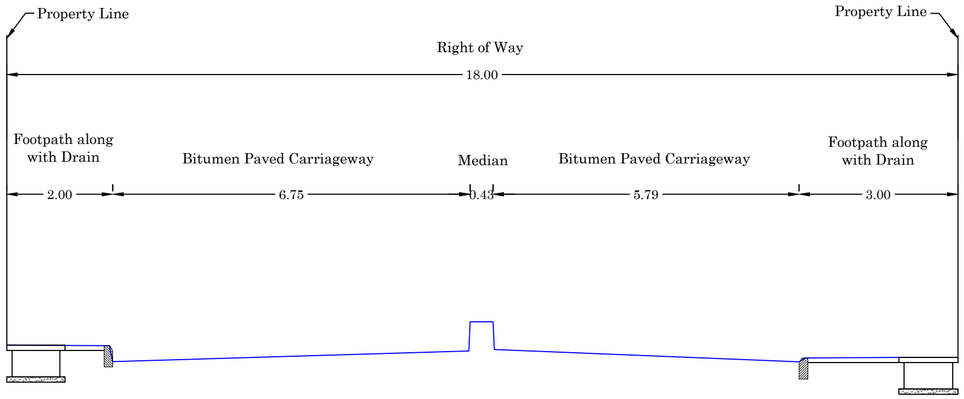
Proposed Typical Cross Section Details

Tannery Road from Doddi Circle to Venkateshpura Circle

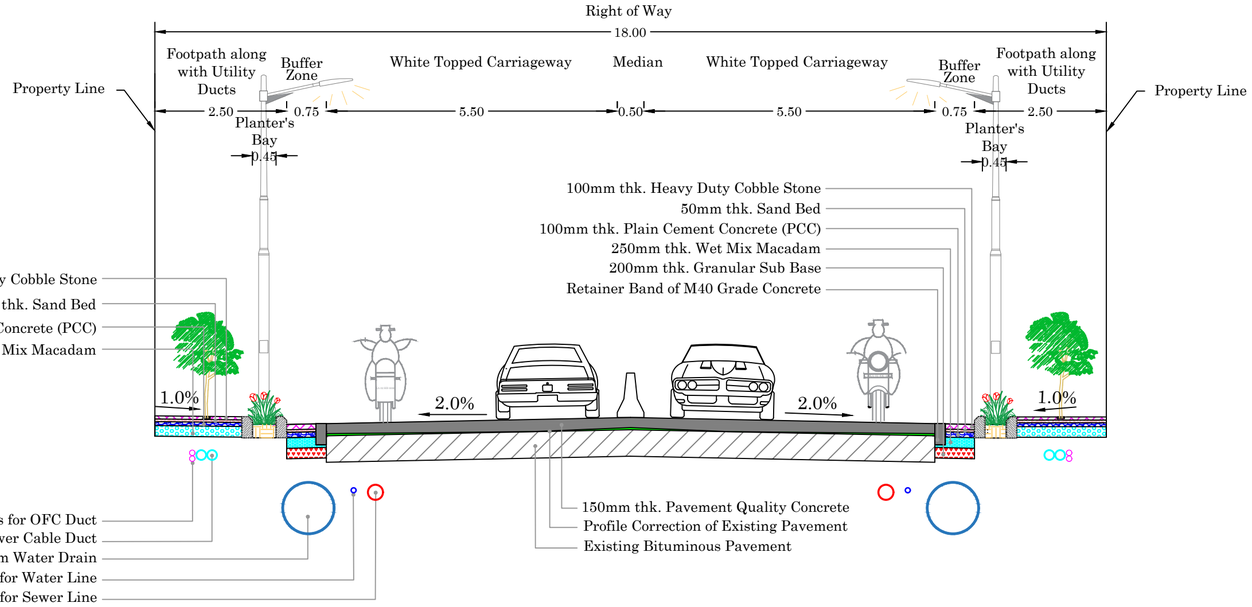
PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Existing Cross Section at Ch: 60



Proposed Typical Cross Section

Abbreviation:

DI	: Ductile Iron
DWC	: Double Wall Corrugated
HDPE	: High Density Polyethylene
NP3	: Non Pressure of Class 3

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	1 / 2

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Mosque Road / TCS / 204 A

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

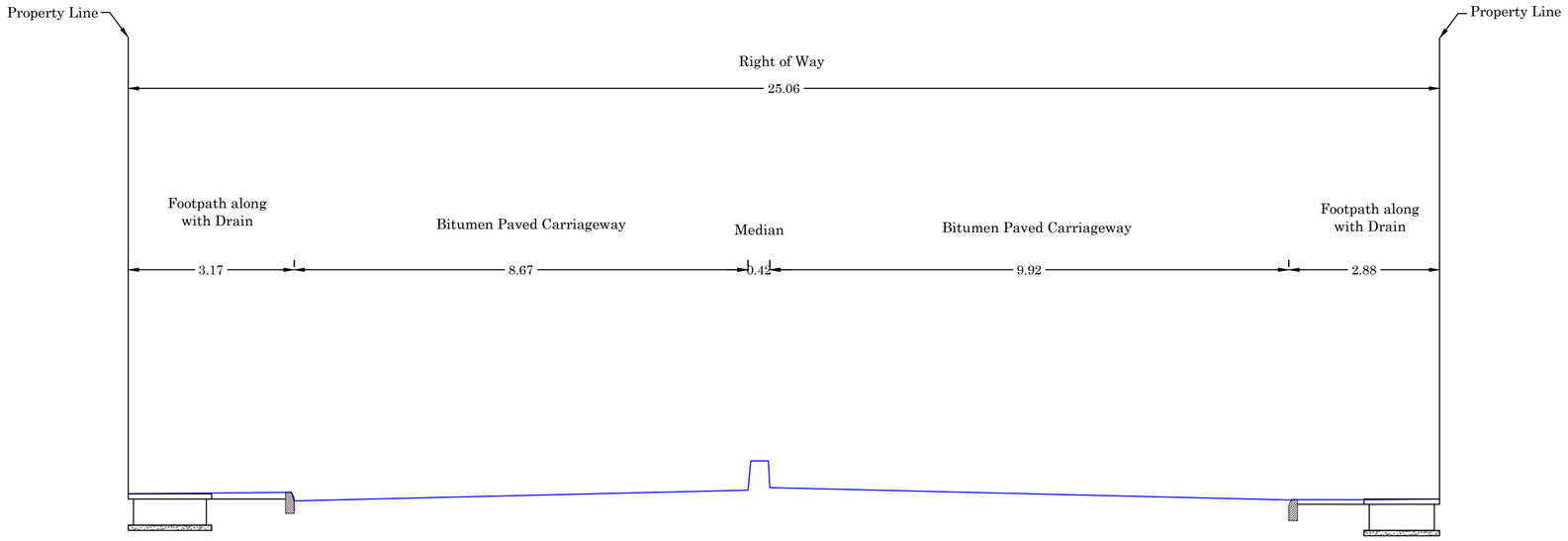
Proposed Typical Cross Section Details

Mosque Road from Coles Road to MM Road

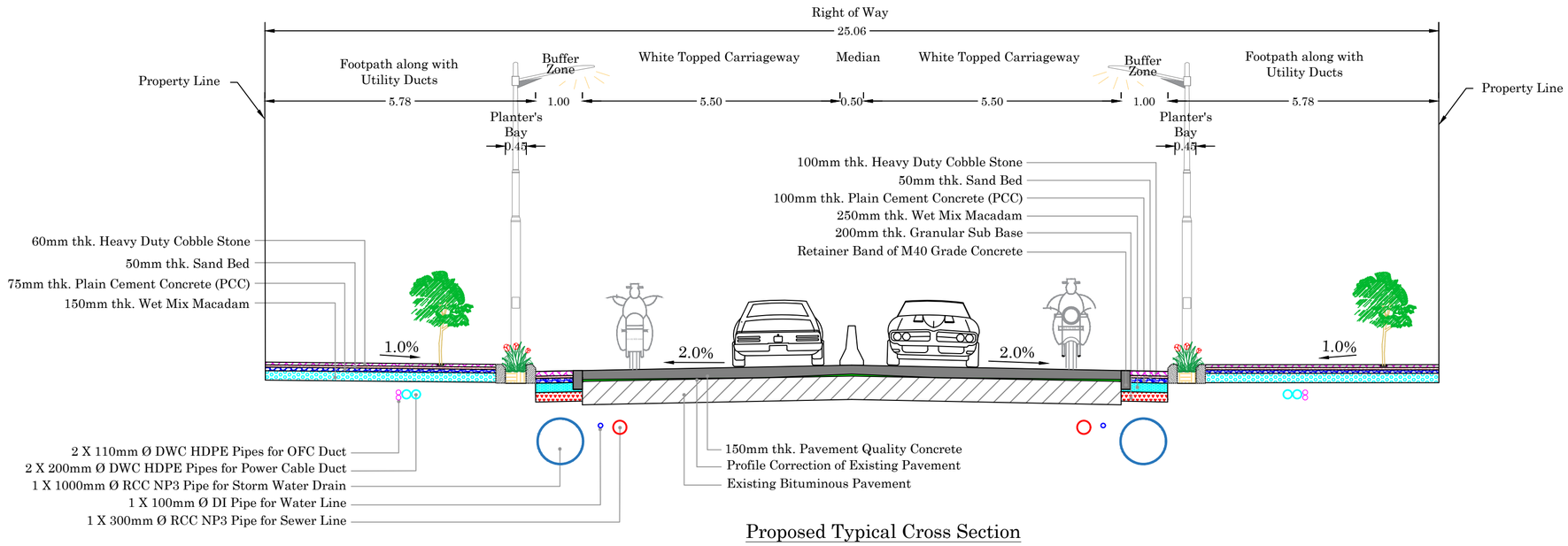
PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Existing Cross Section at Ch: 460



Proposed Typical Cross Section

Abbreviation:

DI	: Ductile Iron
DWC	: Double Wall Corrugated
HDPE	: High Density Polyethylene
NP3	: Non Pressure of Class 3

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	2 / 2

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Mosque Road / TCS / 204 B

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

Proposed Typical Cross Section Details

Mosque Road from Coles Road to MM Road

PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY

Datum: 941.8

Ground Level	942.157	942.117	942.069	942.040	942.100	942.129	942.158
Distance	-4.544	-3.319	-3.065	0	2.953	3.017	5.295

Ch: 0

Datum: 941.4

Ground Level	941.718	941.719	941.727	941.680	941.662	941.641	941.795	941.841	941.851
Distance	-4.095	-4.016	-2.971	-2.754	0	2.797	2.870	3.172	4.262	4.563

Ch: 20

Datum: 941.0

Ground Level	941.423	941.424	941.434	941.433	941.253	941.244	941.980	941.292	941.274	941.245
Distance	-4.733	-4.472	-3.126	-2.882	-2.783	0	2.757	3.215	4.330	4.882

Ch: 40

Datum: 940.6

Ground Level	941.045	941.046	941.053	941.055	940.921	940.914	940.862	941.013	941.009	940.998	940.988
Distance	-4.883	-4.768	-3.607	-3.376	-3.304	0	2.943	3.049	3.438	4.554	5.582

Ch: 60

Datum: 940.2

Ground Level	940.752	940.753	940.738	940.616	940.574	940.469	940.566	940.569	940.589	940.586
Distance	-4.699	-4.362	-3.140	-2.876	0	2.922	3.077	3.420	4.731	5.068

Ch: 80

Datum: 939.8

Ground Level	940.419	940.415	940.404	940.403	940.222	940.192	940.083	940.189	940.197	940.216	940.221
Distance	-4.921	-4.503	-3.242	-3.149	-3.045	0	3.090	3.203	3.636	4.702	4.991

Ch: 100

Datum: 939.4

940

Ground Level	940.143	940.142	940.138	940.138	939.911	939.874	939.721	939.917	940.959	939.957	939.949
Distance	-5.490	-5.047	-3.705	-3.601	-3.528	0	3.533	3.651	4.117	5.193	6.111

Ch: 120

Datum: 939.2

Ground Level	939.955	939.957	939.962	939.963	939.702	939.652	939.421	939.710	939.712	939.725	939.735
Distance	-6.431	-5.907	-4.532	-4.140	-3.976	0	4.042	4.177	4.406	5.548	6.527

Ch: 140

Datum: 939.2

940

Ground Level	940.009	939.915	939.842	939.612	939.617	939.487	939.669	939.666	939.660
Distance	-7.573	-5.879	-4.568	-4.191	0	4.499	4.770	5.913	7.881

Ch: 160

Datum: 939.2

Ground Level	939.750	939.752	939.758	939.622	939.593	939.554	939.680	939.688
Distance	-6.259	-5.749	-4.471	-4.406	0	4.469	4.701	5.922

Ch: 180

Datum: 939.2

Ground Level	939.675	939.672	939.645	939.460	939.495	939.488	939.560	939.565	939.610
Distance	-6.112	-5.595	-4.483	-4.197	0	4.101	4.465	5.742	6.375

Ch: 200

Datum: 938.6

Ground Level	939.259	939.286	939.315	939.325	938.995	939.198	939.086	939.400	939.415	939.417
Distance	-6.921	-5.829	-4.678	-4.271	-4.205	0	4.206	4.370	5.447	5.594

Ch: 220

Datum: 938.4

939

Ground Level	938.979	938.980	938.992	939.006	938.654	938.766	938.653	938.892	938.897	938.908	938.908
Distance	-7	-6.914	-5.845	-4.650	-4.404	0	4.401	4.454	5.074	6.238	6.357

Ch: 240

Datum: 938.0

939

Ground Level	939.017	938.979	938.935	938.908	938.995	938.488	938.326	938.526	938.524
Distance	-7.355	-6.470	-5.450	-4.817	-4.635	0	4.689	4.824	6.000

Ch: 260

Datum: 938.2

939

Ground Level	939.148	939.139	939.102	939.069	938.982	938.465	938.424	938.553	938.577	938.578
Distance	-8.580	-8.007	-7.005	-5.968	-5.798	0	5.728	5.990	7.274	7.286

Ch: 280

Datum: 938.2

939

Ground Level	939.821	938.884	938.633	938.489	938.711	938.712	938.719	938.719
Distance	-5.962	-4.745	0	5.589	5.690	5.898	7.145	7.195

Ch: 300

Datum: 938.4

Ground Level	938.771	938.880	938.721	938.795	938.804	938.825	938.837
Distance	-6.599	-5.481	0	4.092	4.588	5.727	6.412

Ch: 320

Datum: 938.2

Ground Level	938.817	938.811	938.810	938.584	938.618	938.679	938.677	938.671	938.670
Distance	-4.490	-3.557	-3.332	-3.278	0	3.303	3.536	4.512	4.651

Ch: 340

Datum: 937.8

Ground Level	938.569	938.575	938.576	938.299	938.225	938.159	938.320	938.432	938.365	938.368
Distance	-4.561	-4.027	-3.513	-3.466	0	3.133	3.229	3.693	4.610	4.722

Ch: 360

Datum: 937.6

Ground Level	938.063	938.059	938.054	938.053	937.880	937.807	937.811	937.924	937.915	937.805	937.891
Distance	-5.470	-4.504	-3.580	-3.385	-3.319	0	3.316	3.418	3.863	4.887	5.065

Ch: 380

NOTES:

1. All Levels, Chainages and Distances are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	1 : 400	R0	2788	A2	1 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / DJ Halli Main Road / ECS / 302A

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

Existing Cross Section Details

DJ Halli Main Road from Periyar Circle to Kavalbyrasandra Bus Stop

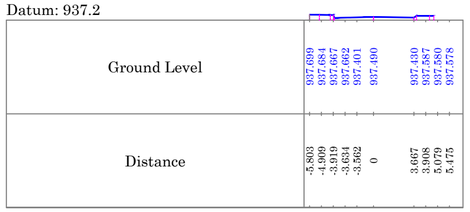
(from Ch: 0 to 380)

PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

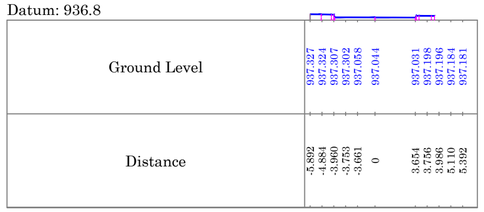
FOR TENDER PURPOSE ONLY

Datum: 937.2



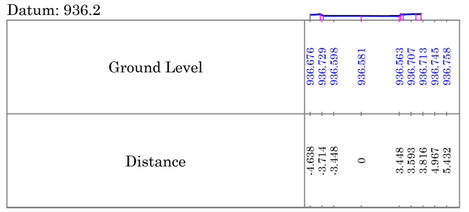
Ch: 400

Datum: 936.8



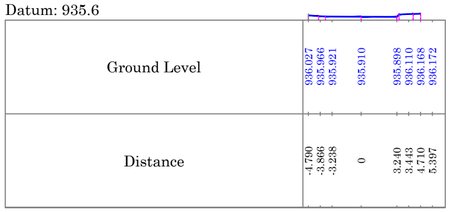
Ch: 420

Datum: 936.2



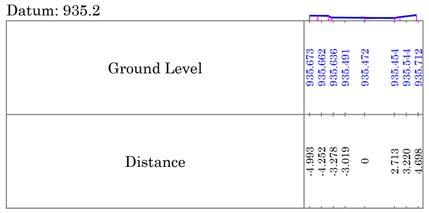
Ch: 440

Datum: 935.6



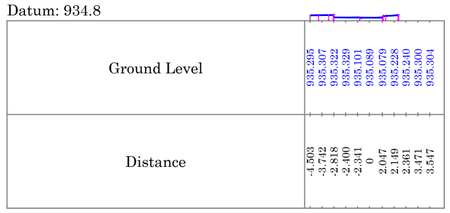
Ch: 460

Datum: 935.2



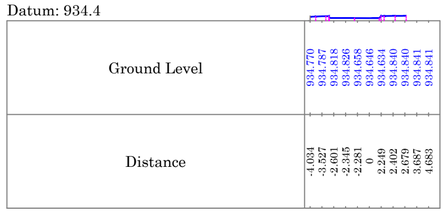
Ch: 480

Datum: 934.8



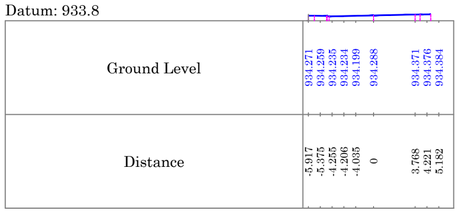
Ch: 500

Datum: 934.4



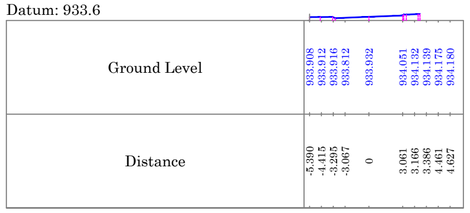
Ch: 520

Datum: 933.8



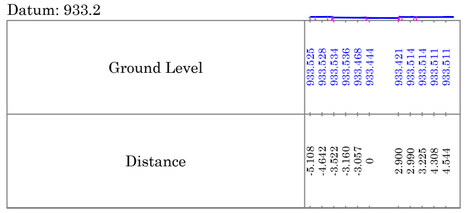
Ch: 540

Datum: 933.6



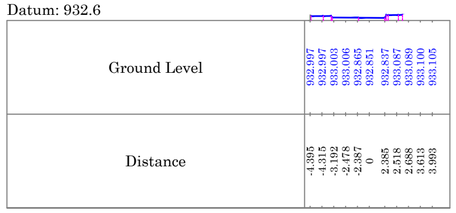
Ch: 560

Datum: 933.2



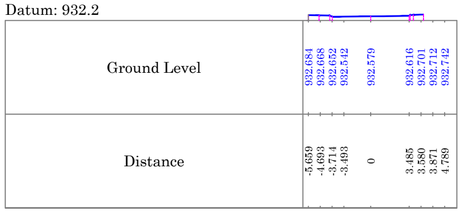
Ch: 580

Datum: 932.6



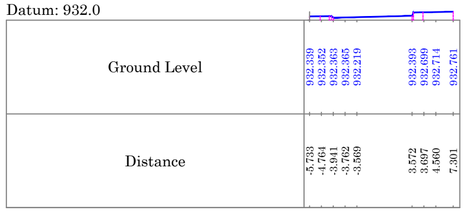
Ch: 600

Datum: 932.2



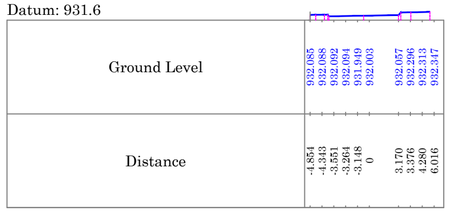
Ch: 620

Datum: 932.0



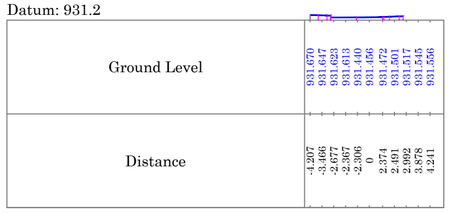
Ch: 640

Datum: 931.6



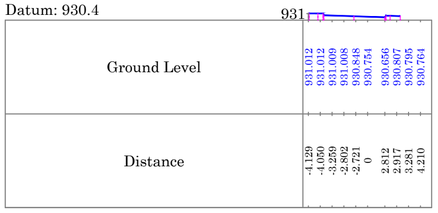
Ch: 660

Datum: 931.2



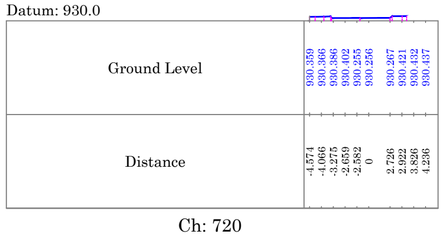
Ch: 680

Datum: 930.4



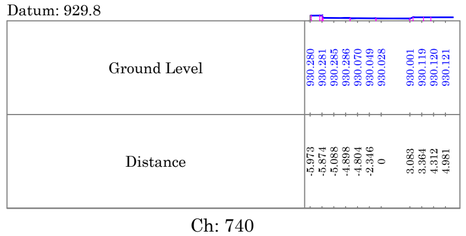
Ch: 700

Datum: 930.0



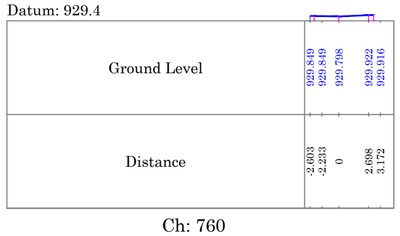
Ch: 720

Datum: 929.8



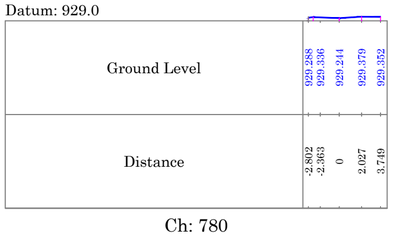
Ch: 740

Datum: 929.4



Ch: 760

Datum: 929.0



Ch: 780

NOTES:

1. All Levels, Chainages and Distances are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	1 : 400	R0	2788	A2	2 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / DJ Halli Main Road / ECS / 302B

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

Existing Cross Section Details

DJ Halli Main Road from Periyar Circle to Kavalbyrasandra Bus Stop

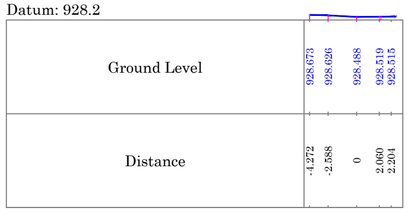
(from Ch: 400 to 780)

PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

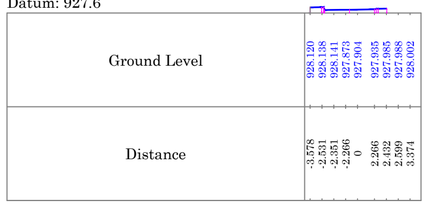
FOR TENDER PURPOSE ONLY

Datum: 928.2



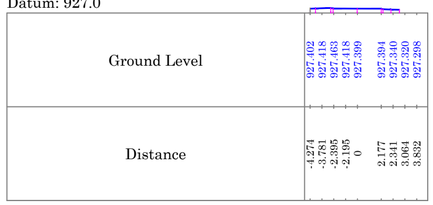
Ch: 800

Datum: 927.6



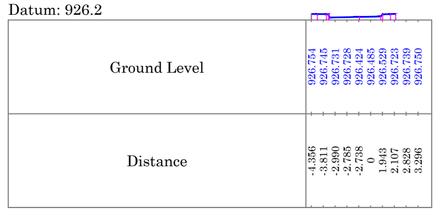
Ch: 820

Datum: 927.0



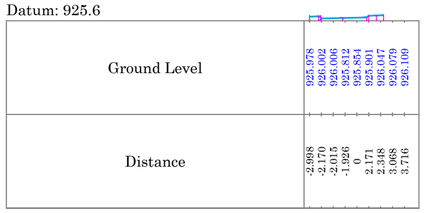
Ch: 840

Datum: 926.2



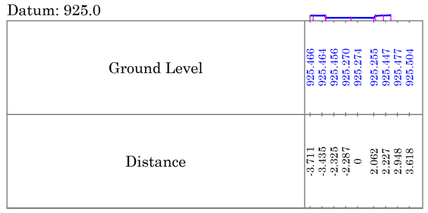
Ch: 860

Datum: 925.6



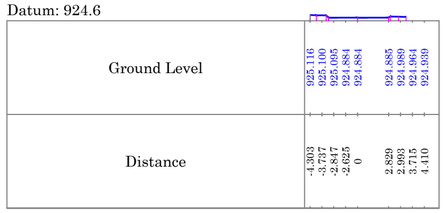
Ch: 880

Datum: 925.0



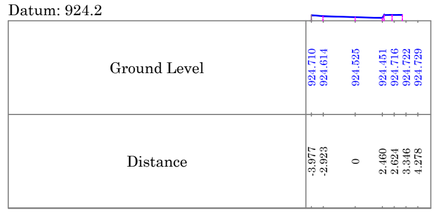
Ch: 900

Datum: 924.6



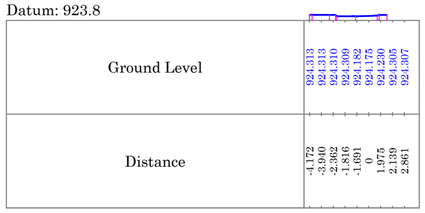
Ch: 920

Datum: 924.2



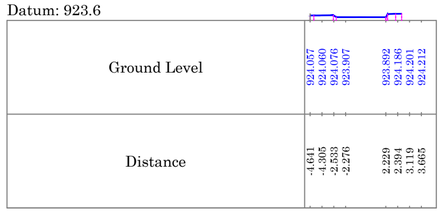
Ch: 940

Datum: 923.8



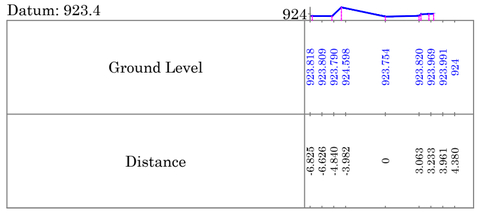
Ch: 960

Datum: 923.6



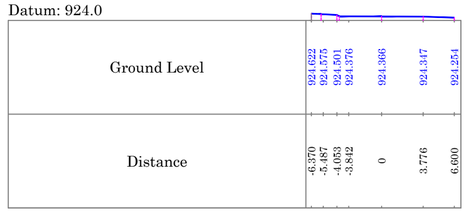
Ch: 980

Datum: 923.4



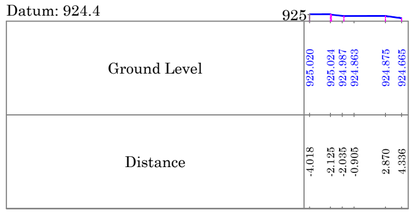
Ch: 1000

Datum: 924.0



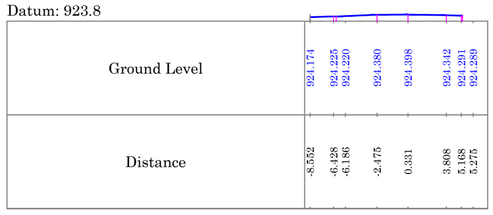
Ch: 1020

Datum: 924.4



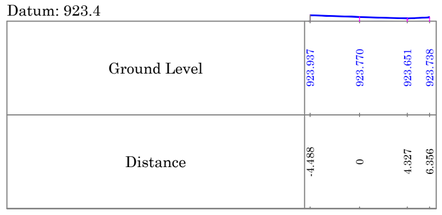
Ch: 1040

Datum: 923.8



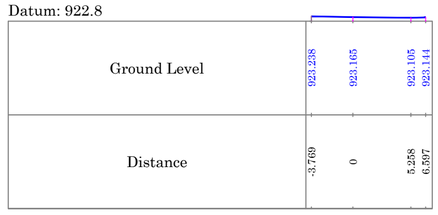
Ch: 1060

Datum: 923.4



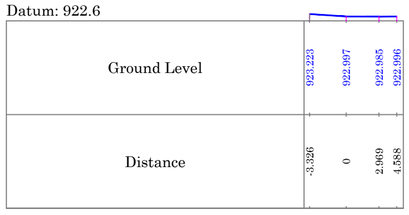
Ch: 1080

Datum: 922.8



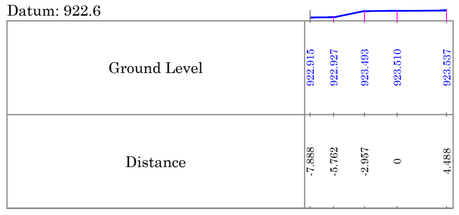
Ch: 1100

Datum: 922.6



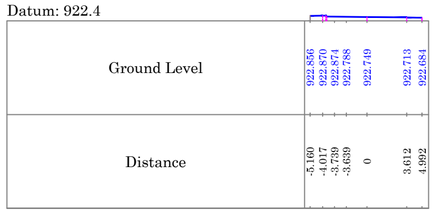
Ch: 1120

Datum: 922.6



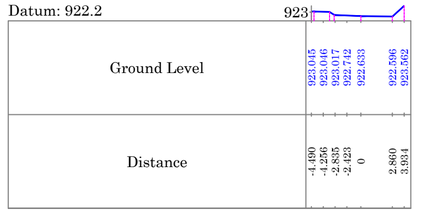
Ch: 1140

Datum: 922.4



Ch: 1160

Datum: 922.2



Ch: 1180

NOTES:

1. All Levels, Chainages and Distances are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	1 : 400	R0	2788	A2	3 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / DJ Halli Main Road / ECS / 302C

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

Existing Cross Section Details

DJ Halli Main Road from Periyar Circle to Kavalbyrasandra Bus Stop

(from Ch: 800 to 1180)

PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY

Datum: 922.2

Ground Level	922.764		922.617	922.587	922.567	922.540	922.559
Distance	-5.799		-2.092	0	1.373	3.189	4.130

Ch: 1200

Datum: 922.2

Ground Level	922.631	922.635	922.644	922.534	922.509	922.462	922.501	922.587	922.584
Distance	-5.115	-4.528	-3.201	-3.095	0	3.044	3.246	4.157	5.047

Ch: 1220

Datum: 922.2

Ground Level	922.580	922.569	922.551	922.517	922.439	922.446	922.448	922.567	922.547
Distance	-5.004	-4.641	-3.541	-3.107	-2.994	0	3.084	3.256	4.196

Ch: 1240

Datum: 922.2

Ground Level	922.638	922.635	922.626	922.624	922.554	922.555	922.504	922.619	922.616
Distance	-5.037	-4.693	-3.518	-3.251	-3.086	0	2.842	3.015	3.956

Ch: 1260

Datum: 922.4

923

Ground Level	922.653	922.690	922.655	922.611	923.852	923.835
Distance	-4.799	-3.348	0	4.273	4.469	5.473

Ch: 1280

Datum: 922.0

923

Ground Level	923.515	923.515	923.515	922.447	922.398	922.363	922.644	922.624	922.622
Distance	-4.236	-3.911	-2.480	-2.319	0	2.217	2.395	3.359	3.445

Ch: 1300

Datum: 922.0

923

Ground Level	923.183	923.373	923.459	922.459	922.287	922.253	922.238	923.392	923.344	923.336
Distance	-3.959	-3.772	-2.834	-2.234	-2.165	0	2.061	2.225	2.360	3.375

Ch: 1320

Datum: 921.8

Ground Level	922.557	922.518	922.487	922.221	922.214	922.193	922.571	922.421	922.402
Distance	-3.825	-3.608	-2.107	-2.023	0	2	2.177	3.141	3.342

Ch: 1340

Datum: 922.0

Ground Level	922.469	922.444	922.427	922.266	922.242	922.217	922.450	922.450	922.450
Distance	-5.406	-3.773	-2.612	-2.446	0	2.447	2.627	3.603	3.715

Ch: 1360

Datum: 922.0

Ground Level	922.696	922.695	922.693	922.691	922.457	922.442	922.399	922.460	922.461
Distance	-6.489	-5.868	-4.832	-4.110	-3.952	0	3.507	3.688	4.647

Ch: 1380

Datum: 922.0

Ground Level	922.754	922.744	922.741	922.495	922.394	922.363	922.497	922.497	922.506
Distance	-4.735	-3.431	-3.072	-2.956	0.126	2.907	2.984	3.107	4.107

Ch: 1400

Datum: 922.2

Ground Level	922.891	922.899	922.575	922.545	922.524	922.723	922.724
Distance	-4.722	-3.196	-3.004	0	2.945	3.162	4.114

Ch: 1420

Datum: 922.4

923

Ground Level	923.032	923.032	922.781	922.777	922.718	923.048	923.049
Distance	-4.993	-3.594	-3.380	0	3.274	3.599	4.551

Ch: 1440

Datum: 922.6

Ground Level	923.216	923.216	923.222	923.223	922.917	922.887	922.861	923.073	923.060
Distance	-6.146	-6.104	-4.756	-4.380	-4.308	0	3.755	3.919	4.886

Ch: 1460

Datum: 922.8

Ground Level	923.356	923.356	923.362	923.364	923.046	923.083	923.042	923.292	923.314	923.316
Distance	-5.671	-5.040	-4.218	-3.837	-3.765	0	3.720	3.889	4.841	4.957

Ch: 1480

Datum: 922.8

Ground Level	923.496	923.486	923.446	923.207	923.203	923.177	923.411	923.402	923.400
Distance	-5.635	-5.302	-3.944	-3.514	0	3.457	3.688	4.640	4.772

Ch: 1500

Datum: 923.0

Ground Level	923.730	923.747	923.686	923.395	923.309	923.258	923.492	923.493	923.458	923.457
Distance	-5.874	-4.480	-3.112	-2.784	0	3.184	3.305	3.650	4.575	4.654

Ch: 1520

Datum: 923.2

924

Ground Level	924.042	924.016	924.008	923.618	923.597	923.467	923.614	923.613	923.609
Distance	-4.826	-3.354	-2.922	-2.855	0	3.055	3.153	3.440	4.388

Ch: 1540

Datum: 923.4

924

Ground Level	924.391	924.357	924.360	924.357	923.995	923.864	923.734	924.060	924.046	924.043
Distance	-4.822	-4.632	-3.159	-2.988	-2.890	0	2.888	3.042	3.147	4.096	4.178

Ch: 1560

Datum: 924.0

Ground Level	924.537	924.538	924.517	924.512	924.336	924.323	924.282	924.297	924.341	924.374
Distance	-4.388	-4.244	-2.881	-2.577	-2.519	0	2.517	2.855	3.850	4.584

Ch: 1580

NOTES:

1. All Levels, Chainages and Distances are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	1 : 400	R0	2788	A2	4 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / DJ Halli Main Road / ECS / 302D

CONSULTANT:
MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

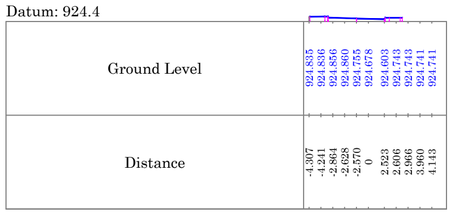
CLIENT:
BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:
Existing Cross Section Details
DJ Halli Main Road from Periyar Circle to Kavalbyrasandra Bus Stop
(from Ch: 1200 to 1580)

PROJECT:
Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY

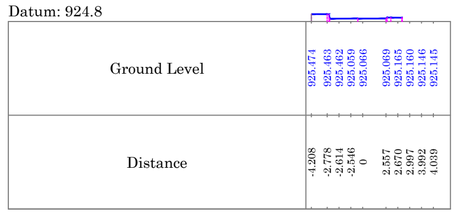
Datum: 924.4



Ground Level	924.835	924.836	924.856	924.860	924.875	924.678	924.602	924.743	924.743	924.741	924.741
Distance	-4.307	-4.241	-2.864	-2.628	-2.470	0	2.523	2.606	2.866	3.960	4.143

Ch: 1600

Datum: 924.8

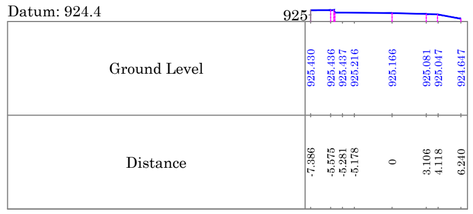


Ground Level	925.474	925.463	925.462	925.059	925.066	925.069	925.045	925.160	925.146	925.145	
Distance	-4.298	-2.778	-2.614	-2.546	0	2.557	2.670	2.907	3.992	4.039	

Ch: 1620

Datum: 924.4

925



Ground Level	925.430	925.436	925.437	925.216	925.166	925.081	925.047	924.647
Distance	-7.386	-5.575	-5.281	-5.178	0	3.106	4.118	6.240

Ch: 1640

NOTES:

1. All Levels, Chainages and Distances are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	1 : 400	R0	2788	A2	5 / 5

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / DJ Halli Main Road / ECS / 302E

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

Existing Cross Section Details

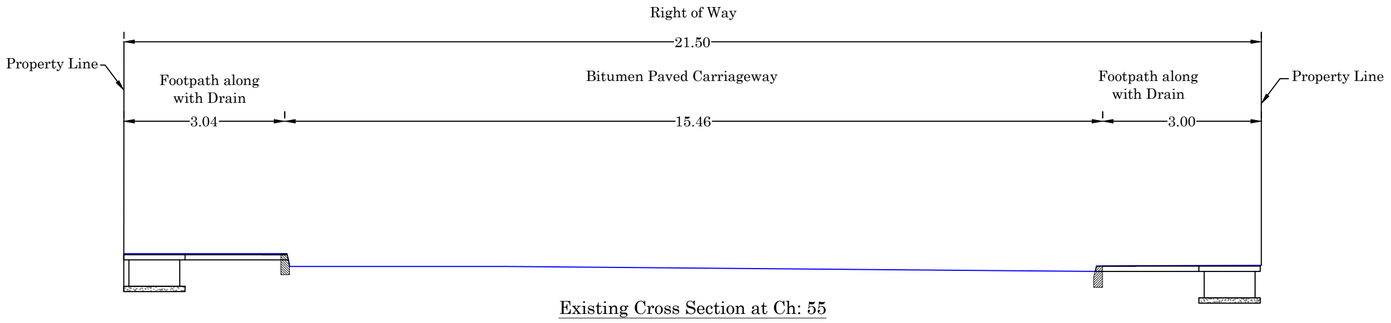
DJ Halli Main Road from Periyar Circle to Kavalbyrasandra Bus Stop

(from Ch: 1600 to 1640)

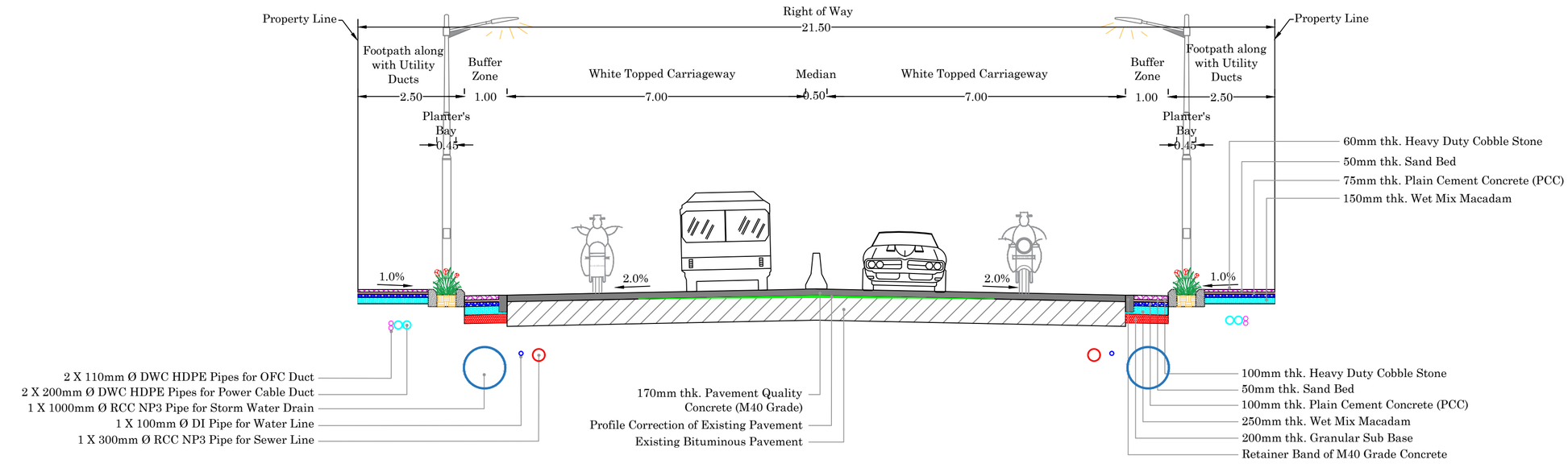
PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Existing Cross Section at Ch: 55



Proposed Typical Cross Section

Abbreviation:

DI	: Ductile Iron
DWC	: Double Wall Corrugated
HDPE	: High Density Polyethylene
NP3	: Non Pressure of Class 3

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	NTS	R0	2788	A2	1 / 3

Dwg. No. MC / BBMP / 2788 / WT / PC – 5 / Hennur 80 ft. Road / TCS / 304A

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

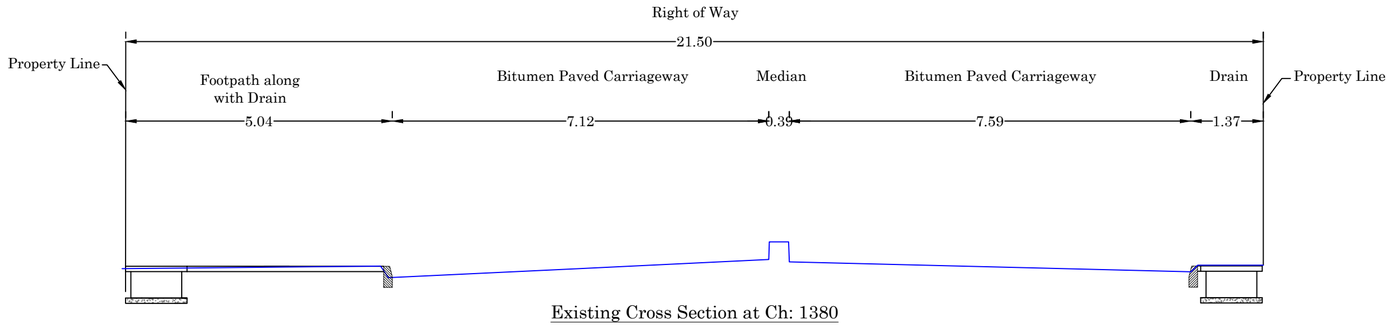
Proposed Typical Cross Section Details

(Hennur 80 ft. Main Road from Hennur Junction ORR to Lingarajapura Flyover)

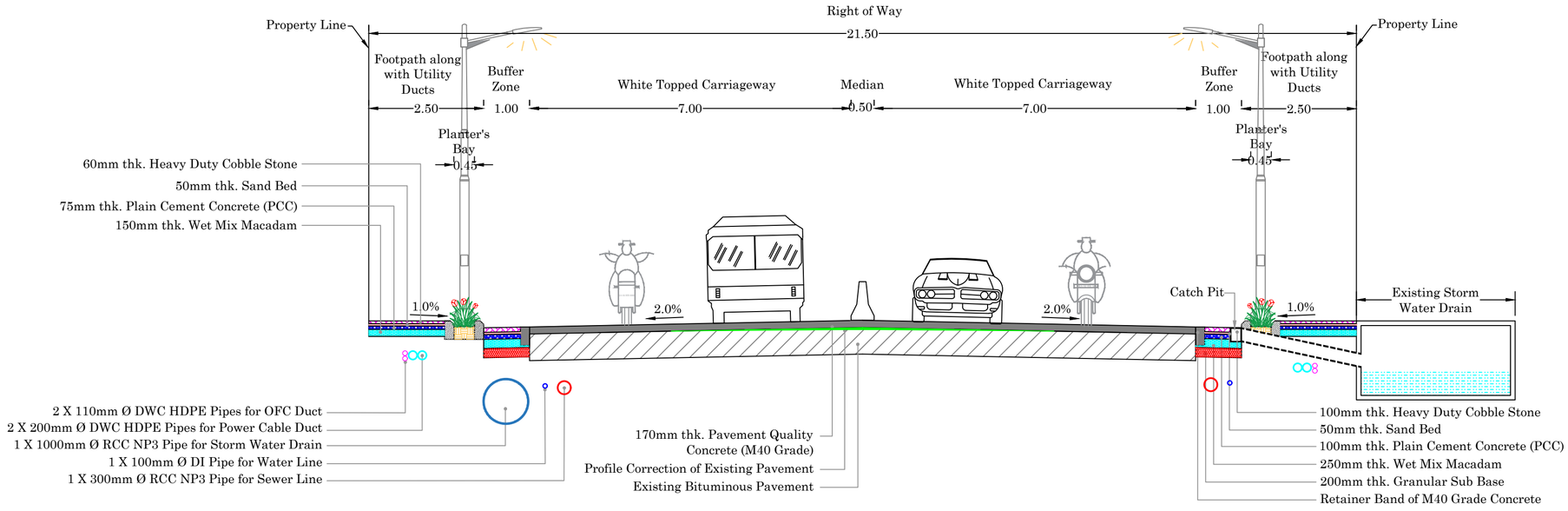
PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Existing Cross Section at Ch: 1380



Proposed Typical Cross Section

Abbreviation:

DI	: Ductile Iron
DWC	: Double Wall Corrugated
HDPE	: High Density Polyethylene
NP3	: Non Pressure of Class 3

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	NTS	R0	2788	A2	2 / 3

Dwg. No. MC / BBMP / 2788 / WT / PC – 5 / Hennur 80 ft. Road / TCS / 304B

CONSULTANT:

MANASA CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No. 91, West Park Road, between 17th and 18th Cross
Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

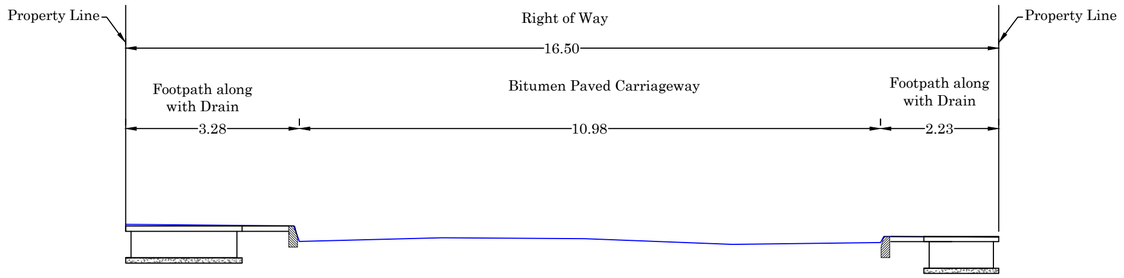
Proposed Typical Cross Section Details

(Hennur 80 ft. Main Road from Hennur Junction ORR to Lingarajapura Flyover)

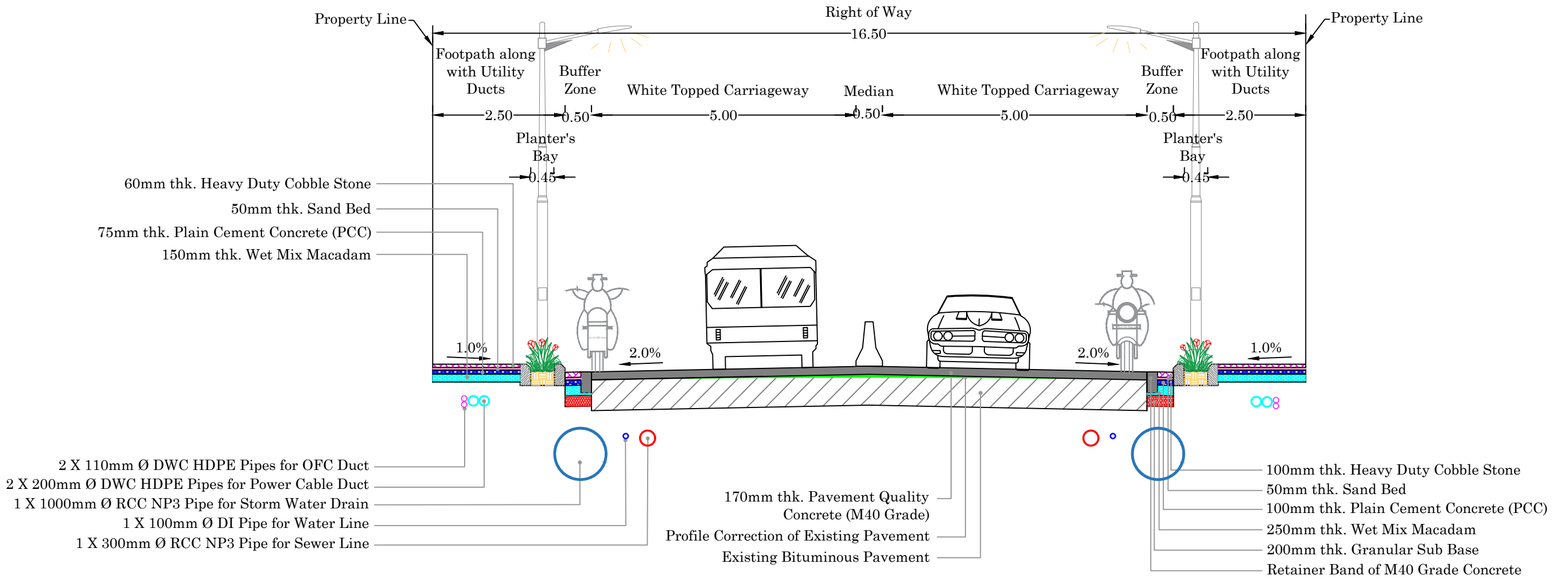
PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Existing Cross Section at Ch: 1480



Proposed Typical Cross Section

Abbreviation:

DI	: Ductile Iron
DWC	: Double Wall Corrugated
HDPE	: High Density Polyethylene
NP3	: Non Pressure of Class 3

NOTES:

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DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	NTS	R0	2788	A2	3 / 3

Dwg. No. MC / BBMP / 2788 / WT / PC – 5 / Hennur 80 ft. Road / TCS / 304B

CONSULTANT:

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No. 91, West Park Road, between 17th and 18th Cross
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Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

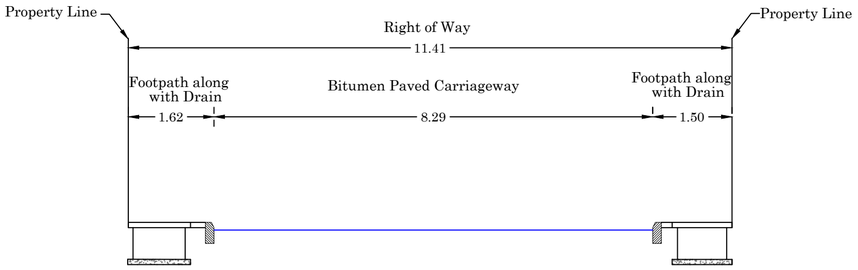
Proposed Typical Cross Section Details

(Hennur 80 ft. Main Road from Hennur Junction ORR to Lingarajapura Flyover)

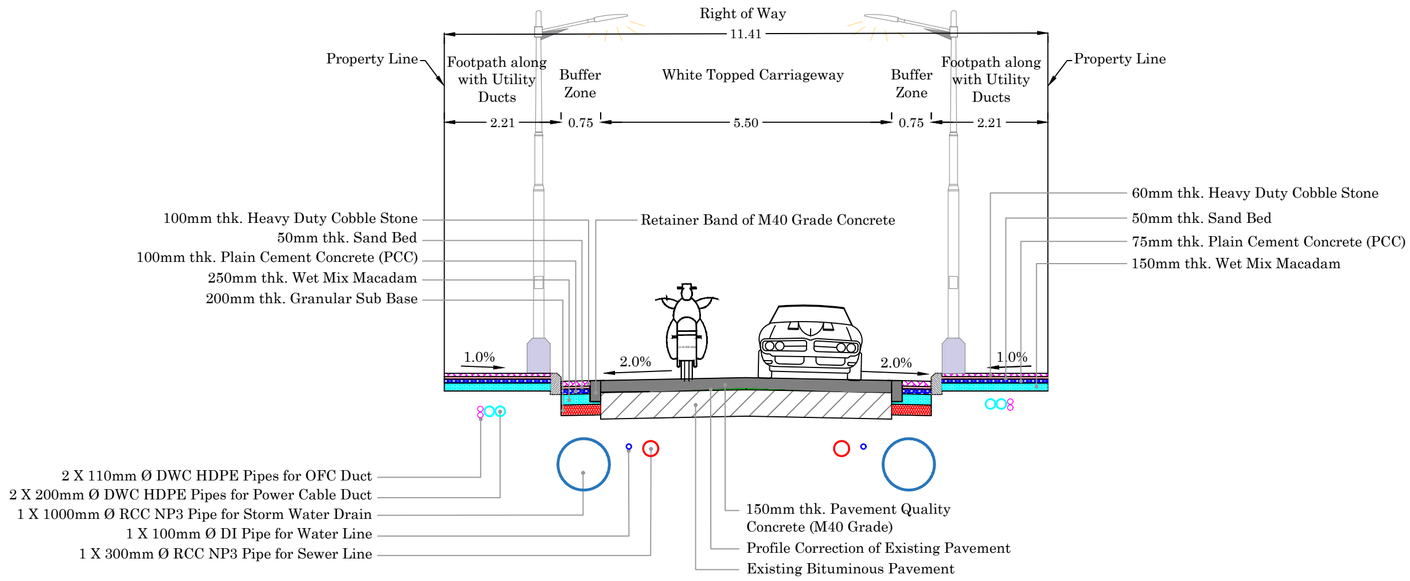
PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Existing Cross Section at Ch: 1860


Right of Way
11.41
Property Line
Footpath along with Utility Ducts
2.21
Buffer Zone
0.75
White Topped Carriageway
5.50
Buffer Zone
0.75
Footpath along with Utility Ducts
2.21
Property Line
100mm thk. Heavy Duty Cobble Stone
50mm thk. Sand Bed
100mm thk. Plain Cement Concrete (PCC)
250mm thk. Wet Mix Macadam
200mm thk. Granular Sub Base
Retainer Band of M40 Grade Concrete
60mm thk. Heavy Duty Cobble Stone
50mm thk. Sand Bed
75mm thk. Plain Cement Concrete (PCC)
150mm thk. Wet Mix Macadam
1.0%
2.0%
2.0%
1.0%
2 X 110mm Ø DWC HDPE Pipes for OFC Duct
2 X 200mm Ø DWC HDPE Pipes for Power Cable Duct
1 X 1000mm Ø RCC NP3 Pipe for Storm Water Drain
1 X 100mm Ø DI Pipe for Water Line
1 X 300mm Ø RCC NP3 Pipe for Sewer Line
150mm thk. Pavement Quality Concrete (M40 Grade)
Profile Correction of Existing Pavement
Existing Bituminous Pavement

Proposed Typical Cross Section

Abbreviation:

DI	: Ductile Iron
DWC	: Double Wall Corrugated
HDPE	: High Density Polyethylene
NP3	: Non Pressure of Class 3

NOTES:

1. All Dimensions, Levels and Chainages are in metre unless otherwise specified.

DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	1 / 2

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Nagawara / TCS / 504 A

CONSULTANT:

MANASA CONSULTANTS
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Malleshwaram, Bengaluru – 560 055
Tel: (080) 23318602, 43705818
email: manasaconsultants1991@gmail.com

CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

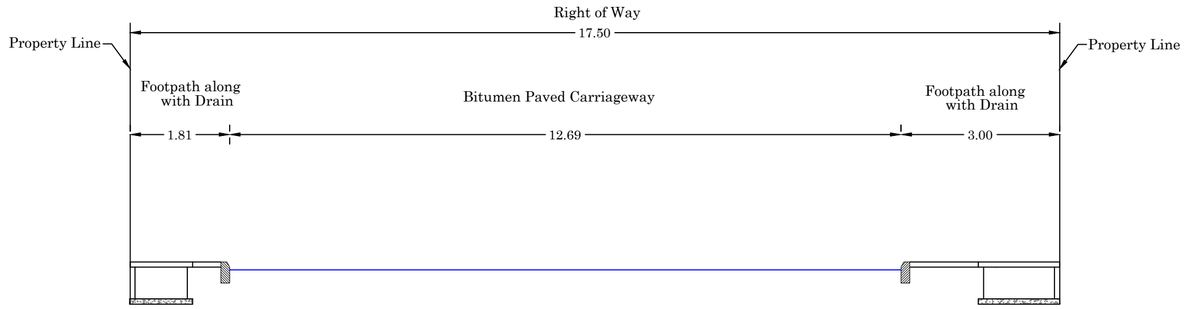
Typical Cross Section Detailes

Nagawara Main Road from ORR to Shampur Road Junction

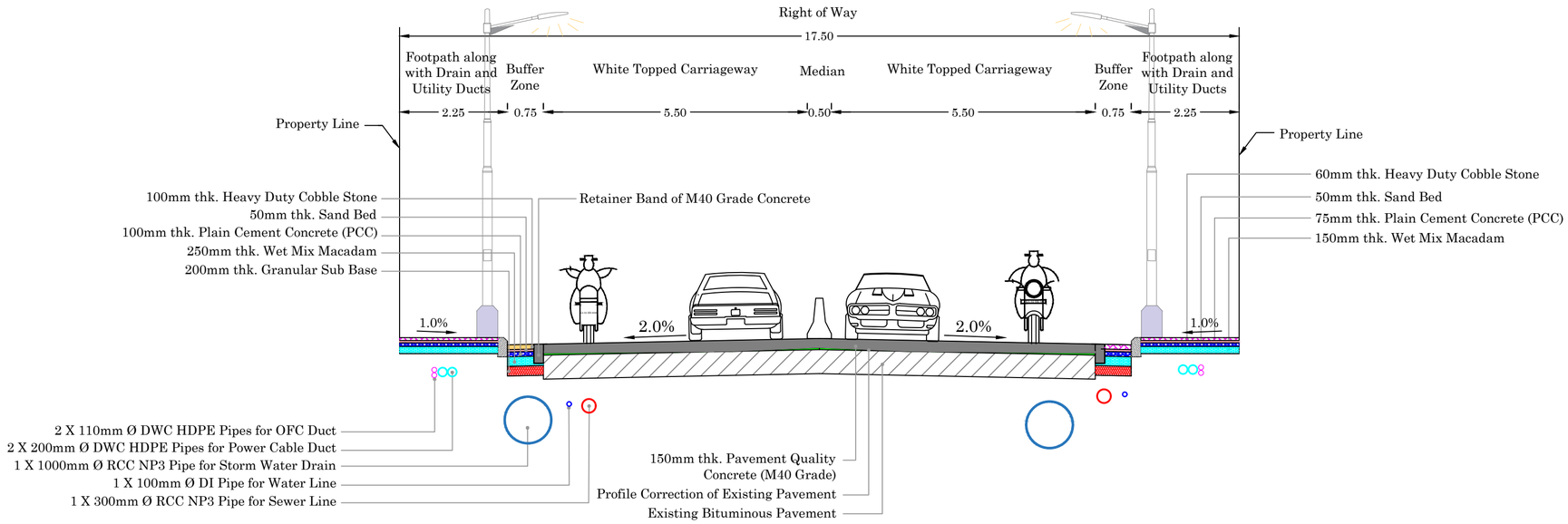
PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1

FOR TENDER PURPOSE ONLY



Existing Cross Section at Ch: 300


Right of Way
17.50
Footpath along with Drain and Utility Ducts
Buffer Zone
White Topped Carriageway
Median
White Topped Carriageway
Buffer Zone
Footpath along with Drain and Utility Ducts
2.25
0.75
5.50
0.50
5.50
0.75
2.25
Property Line
Property Line
100mm thk. Heavy Duty Cobble Stone
50mm thk. Sand Bed
100mm thk. Plain Cement Concrete (PCC)
250mm thk. Wet Mix Macadam
200mm thk. Granular Sub Base
Retainer Band of M40 Grade Concrete
60mm thk. Heavy Duty Cobble Stone
50mm thk. Sand Bed
75mm thk. Plain Cement Concrete (PCC)
150mm thk. Wet Mix Macadam
1.0%
2.0%
2.0%
1.0%
2 X 110mm Ø DWC HDPE Pipes for OFC Duct
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1 X 1000mm Ø RCC NP3 Pipe for Storm Water Drain
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Proposed Typical Cross Section

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DATE	SCALE	REV. No.	JOB No.	SHEET SIZE	SHEET No.
Jan 2024	As Specified	R0	2788	A2	2 / 2

Dwg. No. MC / BBMP / 2788 / WT / PC – 4 / Nagawara / TCS / 504 B

CONSULTANT:

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CLIENT:

BRUHAT BENGALURU MAHANAGARA PALIKE

TITLE:

Typical Cross Section Detailes

Nagawara Main Road from ORR to Shampur Road Junction

PROJECT:

Comprehensive Development of Roads by providing White Topping in Sarvagna Nagara and Pulikeshi Nagar Constituencies in Bengaluru City for the Year 2023 – 24 under Package – 1